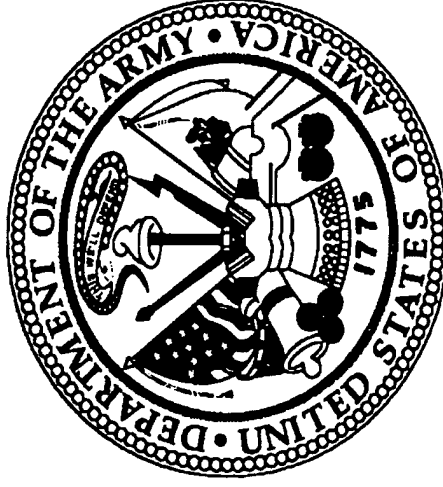


# DEPARTMENT OF THE ARMY

## Procurement Programs



19980305 065

DTIC QUALITY INSPECTED 2

Committee Staff Procurement Backup Book  
FY 1999 Budget Estimates

**OTHER PROCUREMENT, ARMY  
ACTIVITIES 3/4, OTHER SUPPORT EQUIPMENT AND INITIAL SPARES**

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APPROPRIATION

February 1998

**DISTRIBUTION STATEMENT A**  
Approved for public release;  
Distribution Unlimited

# Index for OTHER PROCUREMENT, ARMY - Activities 3 & 4

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118	GENERATOR, SMOKE, MECH M58	M99107	56232127.99P	6
120	LT VEH OBSCURANT SMK SYS	G70700	56472127.99P	12
121	RIBBON BRIDGE	MA8890	53542155.99P	17
122	METALLIC MINE DETECTOR, VEHICLE MOUNTED	M80100	52885122.99P	22
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138	ITEMS LESS THAN \$2.0M (CSS-EQ)	ML5325	59536101.99P	92
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150	DIST, BITUM MATERIAL 1500G TRK MTD	R02100	51974155.99P	151
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153	DEPLOYABLE UNIVERSAL COMBAT EARTH MOVERS	M06105	54429101.99P	165
154	TRUCK, DUMP, 20T (CCE)	R03000	55862101.99P	171
155	CRUSHING/SCREENING PLANT, 150 TPH	M07000	56438101.99P	176
156	CRANE, WHEEL MTD, 25T, 3/4 CU YD, RT	X00800	57302101.99P	180
157	ITEMS LESS THAN \$2.0M (CONST EQUIP)	ML5350	59462101.99P	186
158	PUSHER TUG, SMALL	M44500	51782101.99P	188
159	FLOATING CRANE, 100-250 TON	M32400	53042101.99P	194
160	CONTAINERIZED MAINTENANCE FACILITY	M11300	54400101.99P	199
161	CAUSEWAY SYSTEMS	R97500	54512101.99P	204
162	RAILWAY CAR, FLAT, 100 TON	M37000	54932101.99P	208
163	ITEMS LESS THAN \$2.0M (FLOAT/RAIL)	ML5355	59552101.99P	215
164	GENERATORS AND ASSOCIATED EQUIP	MA9800	50426151.99P	217
165	TRUCK, FORK LIFT, DE, PT, RT, 50000 LB	M41200	55382101.99P	270
166	ALL TERRAIN LIFTING ARTICULATING SYSTEM	M41800	57240101.99P	276
167	ROUGH TERRAIN CONTAINER CRANE	X00900	57846101.99P	282
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## Index for OTHER PROCUREMENT, ARMY - Activities 3 & 4

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179	BASE LEVEL COM'L EQUIPMENT	MB7000	50312156.99P	417
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183	PRODUCTION BASE SUPPORT (OTH)	MA0450	51220144.99P	446
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DEPARTMENT OF THE ARMY  
FY 99 PROCUREMENT PROGRAM

EXHIBIT P-1  
February 1998

Appropriation: \*\*OTHER PROCUREMENT, ARMY\*\*

Activity: 3. \*\*OTHER SUPPORT EQUIPMENT\*\*

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 99 UNIT COST	(Thousands of Dollars)					
				FY 97			FY 98		
				QTY	COST	(5)	QTY	COST	(6)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	<b>**CHEMICAL DEFENSIVE EQUIPMENT**</b>								
117	GEN SMK MECH:MTRZD DUAL PURP M56 (M99103)	A	198,815	66	12,447	62	12,267	76	15,110
118	GENERATOR, SMOKE, MECH M58 (M99107)	A	279,526	40	11,523	27	8,946	38	10,622
119	GEN SET, SMOKE, MECH: PUL JET, M157 SERIES (M99104)	A		85	3,403				
120	LT VEH OBSCURANT SMK SYS (G70700)		1,960			486	2,114	2,363	4,633
	<b>SUB-ACTIVITY TOTAL</b>				<b>27,373</b>		<b>23,327</b>		<b>30,365</b>
	<b>**BRIDGING EQUIPMENT**</b>								
121	RIBBON BRIDGE (MA8890)				4,446		4,102		8,824
	<b>SUB-ACTIVITY TOTAL</b>				<b>4,446</b>		<b>4,102</b>		<b>8,824</b>
	<b>**ENGINEER (NON CONSTRUCTION) EQUIPMENT**</b>								
122	METALLIC MINE DETECTOR, VEHICLE MOUNTED (M80100)	B	1,887,500			8	12,281	2	3,775
123	BN COUNTERMINE SIP (X01100)						3,279		3,670
124	M-9 ARMORED COMBAT EARTHMOVER (ACE) (M05900)	A		51	51,005				

Appropriation: \*\*OTHER PROCUREMENT, ARMY\*\*

Activity: 3. \*\*OTHER SUPPORT EQUIPMENT\*\*

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 99 UNIT COST	(Thousands of Dollars)					
				FY 97			FY 98		
				QTY	COST		QTY	COST	
(1)	(2)	(3)	(4)	(5)	(6)		(7)	(8)	(10)
125	ITEMS LESS THAN \$2.0M(ENG NON-CONST) (ML5320)	A			961				
	SUB-ACTIVITY TOTAL				51,966			15,560	7,445
	**COMBAT SERVICE SUPPORT EQUIPMENT**								
126	AIR CONDITIONERS VARIOUS SIZE/CAPACITY (MF9300)	A			1,461			1,433	4,650
127	KITCHEN, CONTAINERIZED, FIELD (CK) (M86400)	B	96,558				77		7,435
128	SANITATION CENTER, FIELD FEEDING (FSC) (M66500)		12,629	54	664		108		1,364
129	FIRETRUCKS (MA9600)								15,000
130	TRUCK, FIREFIGHTING, MULTI-PURPOSE (M15800)		284,666				6		1,708
131	ARMY SPACE HEATER, 120,000 BTU (ASH) (M19600)	A	9,645	258	2,488		110	908	1,061
132	LAUNDRY ADVANCED SYSTEM (LADS) (M86200)	B	379,789				19		7,216
133	FLOODLIGHT SET, ELEC, TRL MTD, 3 LIGHTS (M72100)	B	17,203				113		1,944
134	SOLDIER ENHANCEMENT (MA6800)							1,670	4,832
135	LAND WARRIOR (M80500)	B	201,490				255		51,380

DEPARTMENT OF THE ARMY  
FY 99 PROCUREMENT PROGRAM

EXHIBIT P-1  
February 1998

Appropriation: \*\*OTHER PROCUREMENT, ARMY\*\*

Activity: 3. \*\*OTHER SUPPORT EQUIPMENT\*\*

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 99 UNIT COST	(Thousands of Dollars)					
				FY 97		FY 98		FY 99	
(1)	(2)	(3)	(4)	QTY (5)	COST (6)	QTY (7)	COST (8)	QTY (9)	COST (10)
136	FORCE PROVIDER (M80200)	A	6,104,500	4	24,863	2	11,362	4	24,418
137	REFRIGERATION EQUIPMENT (MA5800)	A			4,274				1,930
138	ITEMS LESS THAN \$2.0M (CSS-EQ) (ML5325)	A			3,681		1,973		4,749
	<b>SUB-ACTIVITY TOTAL</b>				<b>37,431</b>		<b>17,346</b>		<b>127,687</b>
	<b>**PETROLEUM EQUIPMENT**</b>								
139	TANK ASSEMBLY FAB COLL POL 50000 G (M19000)	A	434,882	76	859			17	7,393
140	PUMP ASSY, REGULATED, 350 GPM (M61200)		35,800					10	358
141	INLAND PETROLEUM DISTRIBUTION SYSTEM (MA5120)	A			3,062		1,013		8,342
142	FORWARD AREA REFUELING SYS ADV AVIATION (R21800)	A	296,055					18	5,329
143	ITEMS LESS THAN \$2.0M (POL) (ML5330)	A			6,467		7,055		4,657
	<b>SUB-ACTIVITY TOTAL</b>				<b>10,388</b>		<b>8,068</b>		<b>26,079</b>
	<b>**WATER EQUIPMENT**</b>								
144	SMALL MOBILE WATER CHILLER (SMWC) (M15700)	A	9,345					310	2,897

Appropriation: \*\*OTHER PROCUREMENT, ARMY\*\*

Activity: 3. \*\*OTHER SUPPORT EQUIPMENT\*\*

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 99 UNIT COST	(Thousands of Dollars)					
				FY 97		FY 98		FY 99	
(1)	(2)	(3)	(4)	QTY	COST	QTY	COST	QTY	COST
				(5)	(6)	(7)	(8)	(9)	(10)
145	ITEMS LESS THAN \$2.0M (WATER EQ) (ML5335)  SUB-ACTIVITY TOTAL  **MEDICAL EQUIPMENT**	A			2,968		2,795		1,255
					2,968		2,795		4,152
146	COMBAT SUPPORT MEDICAL (MN1000)  SUB-ACTIVITY TOTAL  **MAINTENANCE EQUIPMENT**				15,765		11,368		25,807
					15,765		11,368		25,807
147	SHOP EQ CONTACT MAINTENANCE TRK MTD (MYP) (M61500)	A	43,872	31	1,665	28	1,597	180	7,897
148	WELDING SHOP, TRAILER MTD (M62700)	A	55,345					55	3,044
149	ITEMS LESS THAN \$2.0M (MAINT EQ) (ML5345)  SUB-ACTIVITY TOTAL  **CONSTRUCTION EQUIPMENT**	A			1,317		4,070		4,754
					2,982		5,667		15,695
150	DIST, BITUM MATERIAL 1500G TRK MTD (R02100)	A	218,850	10	3,300			20	4,377
151	ROLLER, VIBRATORY, SELF-PROPELLED (CCE) (R03300)	A				90	5,930	81	
152	HYDRAULIC EXCAVATOR (X01500)	B	246,230	24	5,578	12	2,759	26	6,402

DEPARTMENT OF THE ARMY  
FY 99 PROCUREMENT PROGRAM

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Appropriation: \*\*OTHER PROCUREMENT, ARMY\*\*

Activity: 3. \*\*OTHER SUPPORT EQUIPMENT\*\*

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 99 UNIT COST	(Thousands of Dollars)					
				FY 97			FY 98		
				QTY	COST		QTY	COST	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
153	DEPLOYABLE UNIVERSAL COMBAT EARTH MOVERS (M10600)		408,173	21	7,665	22	8,678	23	9,388
154	TRUCK, DUMP, 20T (CCE) (R03000)	A	201,590	206	43,263			66	13,305
155	CRUSHING/SCREENING PLANT, 150 TPH (M07000)	A	1,900,500					2	3,801
156	CRANE, WHEEL MTD, 25T, 3/4 CU YD, RT (X00800)	A	245,808	29	6,108	25	13,727	47	11,553
157	ITEMS LESS THAN \$2.0M (CONST EQUIP) (ML5350)	A			2,319		825		1,929
	<b>SUB-ACTIVITY TOTAL</b>				<b>68,233</b>		<b>31,919</b>		<b>50,755</b>
	<b>**RAIL FLOAT CONTAINERIZATION EQUIPMENT**</b>								
158	PUSHER TUG, SMALL (M44500)	B	4,269,000	2	7,599	2	6,597	1	4,269
159	FLOATING CRANE, 100-250 TON (M32400)	B		1	13,888	1	13,744		
160	CONTAINERIZED MAINTENANCE FACILITY (M11300)		5,300,000					1	5,300
161	CAUSEWAY SYSTEMS (R97500)	A							17,083
162	RAILWAY CAR, FLAT, 100 TON (M37000)	A	86,513	138	13,741	165		148	12,804

Appropriation: \*\*OTHER PROCUREMENT, ARMY\*\*

Activity: 3. \*\*OTHER SUPPORT EQUIPMENT\*\*

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 99 UNIT COST	(Thousands of Dollars)					
				FY 97			FY 98		
				QTY	COST		QTY	COST	
(1)	(2)	(3)	(4)	(5)	(6)		(7)	(8)	(10)
163	ITEMS LESS THAN \$2.0M (FLOAT/RAIL) (ML5355)	A			3,707			8,951	3,235
	<b>SUB-ACTIVITY TOTAL</b>				<b>38,935</b>			<b>29,292</b>	<b>42,691</b>
	<b>**GENERATORS**</b>								
164	GENERATORS AND ASSOCIATED EQUIP (MA9800)	A			27,308			7,526	82,749
	<b>SUB-ACTIVITY TOTAL</b>				<b>27,308</b>			<b>7,526</b>	<b>82,749</b>
	<b>**MATERIAL HANDLING EQUIPMENT**</b>								
165	TRUCK, FORK LIFT, DE, PT, RT, 50000 LB (M41200)	A	203,841				101		20,588
166	ALL TERRAIN LIFTING ARTICULATING SYSTEM (M41800)		324,000	168	16,519	34	47	3,471	15,228
167	ROUGH TERRAIN CONTAINER CRANE (X00900)	A	453,833				30		13,615
168	ITEMS LESS THAN \$2.0M (MHE) (ML5365)	A			1,999			1,683	1,672
	<b>SUB-ACTIVITY TOTAL</b>				<b>18,518</b>			<b>5,154</b>	<b>51,103</b>
	<b>**TRAINING EQUIPMENT**</b>								
169	COMBAT TRAINING CENTERS SUPPORT (MA6600)				26,617			26,101	47,395

DEPARTMENT OF THE ARMY  
FY 99 PROCUREMENT PROGRAM

EXHIBIT P-1  
February 1998

Appropriation: \*\*OTHER PROCUREMENT, ARMY\*\*

Activity: 3. \*\*OTHER SUPPORT EQUIPMENT\*\*

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 99 UNIT COST	(Thousands of Dollars)					
				FY 97			FY 98		
				QTY	COST	(5)	QTY	COST	(8)
(1)	(2)	(3)	(4)	(5)	(6)	(5)	(7)	(8)	(10)
170	TRAINING DEVICES, NONSYSTEM (NA0100)				73,546			52,416	56,755
171	SIMNET/CLOSE COMBAT TACTICAL TRAINER (NA0170)	A			64,222			53,326	113,927
172	FIRE SUPPORT COMBINED ARMS TACTICAL TRAINER (NA0174)	B			21,994			19,396	28,124
	<b>SUB-ACTIVITY TOTAL</b>				<b>186,379</b>			<b>151,239</b>	<b>246,201</b>
	<b>**TEST MEAS &amp; DIAG EQUIP (TMDE)**</b>								
173	CALIBRATION SETS EQUIPMENT (N10000)							6,418	9,984
174	INTEGRATED FAMILY OF TEST EQUIPMENT (IFTE) (MB4000)							34,217	54,051
175	TEST EQUIPMENT MODERNIZATION (TEMOD) (N11000)							6,418	13,797
	<b>SUB-ACTIVITY TOTAL</b>							<b>47,053</b>	<b>77,832</b>
	<b>**OTHER SUPPORT EQUIPMENT**</b>								
176	RECONFIGURABLE SIMULATORS (KA6000)	B			2,296			13,501	1,967
177	PHYSICAL SECURITY SYSTEMS (OPA3) (MA0780)	A			7,218			6,322	16,164
178	SYSTEM FIELDING SUPPORT (OPA-3) (MA0070)				7,918			4,825	7,143

Appropriation: \*\*OTHER PROCUREMENT, ARMY\*\*

Activity: 3. \*\*OTHER SUPPORT EQUIPMENT\*\*

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 99 UNIT COST	(Thousands of Dollars)					
				FY 97		FY 98		FY 99	
(1)	(2)	(3)	(4)	QTY	COST	QTY	COST	QTY	COST
				(5)	(6)	(7)	(8)	(9)	(10)
179	BASE LEVEL COM'L EQUIPMENT (MB7000)				5,993		4,182		9,697
180	TRANSPORTATION AUTOMATED MEASURING SYS (TRAMS) (MB8000)						2,918		
181	ELECTRONIC REPAIR SHELTER (MB2201)		1,847,000			3	5,545	2	3,694
182	MODIFICATION OF IN-SVC EQUIPMENT (OPA-3) (MA4500)				14,844		16,271		17,667
183	PRODUCTION BASE SUPPORT (OTH) (MA0450)				1,905		2,189		2,274
184	SPECIAL EQUIPMENT FOR USER TESTING (MA6700)				13,475		14,574		15,062
185	OPA INITIAL SPARES (MY0035)				2,430				
186	MA8975 (MA8975)				2,172		4,145		6,020
187	CLOSED ACCOUNT ADJUSTMENTS (MA9999)				584				
	SUB-ACTIVITY TOTAL				58,835		74,472		79,688
	ACTIVITY TOTAL				551,527		434,888		877,073



DEPARTMENT OF THE ARMY  
FY 99 PROCUREMENT PROGRAM

EXHIBIT P-1  
February 1998

Appropriation: \*\*OTHER PROCUREMENT, ARMY\*\*

Activity: 4. \*\*INITIAL SPARES\*\*

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 99 UNIT COST	(Thousands of Dollars)					
				FY 97		FY 98		FY 99	
(1)	(2)	(3)	(4)	QTY (5)	COST (6)	QTY (7)	COST (8)	QTY (9)	COST (10)
	<b>**INITIAL SPARES OPA1**</b>								
188	INITIAL SPARES - TSV (DS1000)				94		101		4,433
	<b>SUB-ACTIVITY TOTAL</b>						101		4,433
	<b>**INITIAL SPARES OPA2**</b>								
189	INITIAL SPARES - C&E (BS9100)				57,184		53,284		73,362
	<b>SUB-ACTIVITY TOTAL</b>				57,184		53,284		73,362
	<b>**INITIAL SPARES OPA3**</b>								
190	INITIAL SPARES - OTHER SUPPORT EQUIP (MS3500)				608		852		1,174
	<b>SUB-ACTIVITY TOTAL</b>				608		852		1,174
	<b>ACTIVITY TOTAL</b>				57,886		54,237		78,969

Exhibit P-1M, Procurement Programs - Modification Summary

(TOA, Dollars in Millions)

<u>System/Modification</u>	<u>1996 &amp; Prior</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>To Complete</u>	<u>Total Program</u>
<b>BN COUNTERMINE SIP (X01100)</b>										
COUNTERMINE BATTALION SET IMPROVEMENT KIT			3.3	3.7	18.3	7.7				32.9
<b>Total</b>			<b>3.3</b>	<b>3.7</b>	<b>18.3</b>	<b>7.7</b>				<b>32.9</b>
<b>MODIFICATION OF IN-SVC EQUIPMENT (OPA-3) (MA4500)</b>										
Landing Craft, Mechanized 8 Ton	0.3	1.2	1.2	1.0	0.5	2.4	0.4	0.4	0.8	8.2
Lighter Amphibious Resupply Cargo 60	1.4	3.5	5.0	3.4	1.0					14.3
Upgrade 100' Tug		3.3	6.0							9.3
Marine CEN Upgrade		1.1	0.3	0.1	5.2	6.8	6.7	6.7	1.8	28.7
M-9 ACE Micro-Climatic Cooling System	10.8	0.2								11.0
M-9 ACE, System Improvement Plan	7.5	1.7	3.8	3.8	4.2	4.2	4.5	0.1		29.8
Remote Ordnance Neutralization System				1.9	3.9					5.8
Combat Svc Spt Equipment		1.8						1.1		2.9
Driver's Vision Enhancer for M56				2.9						2.9
Vehicle Engine Exhaust Smoke System						2.5	3.4			5.9
LASER LEVELING DEVICE		2.0								2.0
Landing Craft Utility				1.7	2.3	4.2	0.8	0.7	15.8	25.5
Logistics Support Vessel				2.9	5.8	6.0				14.7
<b>Total</b>	<b>20.0</b>	<b>14.8</b>	<b>16.3</b>	<b>17.7</b>	<b>22.9</b>	<b>26.1</b>	<b>15.8</b>	<b>9.0</b>	<b>18.4</b>	<b>161.0</b>
<b>Grand Total</b>	<b>20.0</b>	<b>14.8</b>	<b>19.6</b>	<b>21.4</b>	<b>41.2</b>	<b>33.8</b>	<b>15.8</b>	<b>9.0</b>	<b>18.4</b>	<b>193.9</b>

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 3 / Other Support Equipment												GEN SMK MECH-MTRZD DUAL PURP M56 (M99103)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code:												A	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty	30	47		66	62	76			90	82		453	
Gross Cost	5.1	12.4	0.0	12.4	12.3	15.1	0.0	0.0	20.0	18.1	0.0	95.4	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	5.1	12.4	0.0	12.4	12.3	15.1	0.0	0.0	20.0	18.1	0.0	95.4	
Initial Spares													
Total Proc Cost	5.1	12.4	0.0	12.4	12.3	15.1	0.0	0.0	20.0	18.1	0.0	95.4	
Flyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:**

The M56, mounted on the High Mobility Multipurpose Wheeled Vehicle M1113 (HMMWV), will disseminate smoke on the move and from stationary positions to defeat enemy sensors and smart munitions such as tank thermal sights, guided munitions, directed energy weapons, and other systems operating in the visual through far-infrared regions of the electromagnetic spectrum. The system uses a turbine engine as a power source to disseminate large area obscurant clouds. The visual screening module is capable of vaporizing fog oil for up to 90 minutes and the infrared module is capable of disseminating a particulate material to provide 30 minutes of screening. A pre-planned product improvement (P3I) for millimeter wave obscuration will be capable of producing a 30 minute screen.

**JUSTIFICATION:**

The M56 will operate in support of light and airborne maneuver units by providing visual and infrared screening, thereby concealing movement and protecting these forces. The M56 provides the first large area capability to defeat smart weapons operating in the infrared region of the electromagnetic spectrum. The FY99 program will complete acquisition of 83% of the systems required for Force Package 1.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment			P-1 Line Item Nomenclature: GEN SMK MECH:MTRZD DUAL PURP M56 (M99103)			Weapon System Type:			Date: February 1998		
OPA Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
	A	Contract, Production				9644	66	146	8614	59	146	10878	74	147
		Engineering Change Proposals (ECP)				166			38			158		
		Depot Maintenance Work Requirement				200								
		Government Furnished Equipment				696			644			763		
		Driver's Vision Enhancer							1280			1511		
		Engineering Support				1741			1691			1800		
TOTAL						12447			12267			15110		

NOTE: Quantities in P-1/FYDP for FY98 and FY99 require update. Quantities should be 59 in FY98 and 74 in FY99.

# Exhibit P-5a, Budget Procurement History and Planning

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998										
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment			Weapon System Type:		P-1 Line Item Nomenclature: GEN SMK MECH:MTRZD DUAL PURP M56 (M99103)					RFP Issue Date										
WBS Cost Elements: Fiscal Years			Contractor and Location		Contract Method and Type		Location of PCO		Award Date		Date of First Delivery		QTY Each		Unit Cost \$000		Specs Avail Now?		Date Revisn Avail	
Contract, Production FY97 FY98 FY99			Robotic Systems Tech, Westminster, MD		C/FPM5(3) CBDCOM C/FPM5(4) CBDCOM C/FPM5(5) CBDCOM				Nov-96 Nov-97 Nov-98		Sep-97 Sep-98 Sep-99		66 59 74		146 146 147		YES YES YES			
REMARKS:																				





Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 3 / Other Support Equipment												GENERATOR, SMOKE, MECH M58 (M99107)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty			45	40	27	38	24	31	42	33		280	
Gross Cost	0.0	0.0	12.3	11.5	8.9	10.6	7.7	9.6	11.4	9.5	0.0	81.5	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	0.0	12.3	11.5	8.9	10.6	7.7	9.6	11.4	9.5	0.0	81.5	
Initial Spares													
Total Proc Cost	0.0	0.0	12.3	11.5	8.9	10.6	7.7	9.6	11.4	9.5	0.0	81.5	
Flyaway U/C													
Wpn Sys Proc U/C													
<b>DESCRIPTION</b>													
<p>The M58 is a mechanized multi-spectral smoke and obscurant system consisting of smoke generator components from the M56 motorized smoke generator program, M113A3 Armored Personnel Carriers (APC), a Drivers Vision Enhancer (DVE), and gas particulate filter unit for Chem/Bio protection. Fabrication of unique parts and assemblies and the integration of above Government Furnished Equipment (GFE) will occur at Anniston Army Depot (ANAD).</p> <p><b>JUSTIFICATION</b></p> <p>The FY99 funding supports complete fielding of Force Package (FP) 2. The M58 supports heavy maneuver units by providing visual and infrared screening, concealing movement, and protecting these units. The M58 has increased mobility over existing systems, which was identified as a need during Operation Desert Storm.</p>													



Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment				P-1 Line Item Nomenclature: GENERATOR, SMOKE, MECH M58 (M99107)				Weapon System Type:		Date: February 1998	
OPA Cost Elements			FY 96		FY 97		FY 98		FY 99					
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Smoke Generator Components Engineering Change Proposals (ECP)	A		5265 115	45	117	4680 253	40	117	3159 202	27	117	4446 95	38	117
	A		1305 110	45	29	1320 252	40	33	810 180	27	30	1254 48	38	33
M58 System Conversion	A		360	45	8	520	40	13	378	27	14	570	38	15
Drivers Vision Enhancer/Cdr Display	A		1710	45	38	1520	40	38	1026	27	38	1444	38	38
SINGARS Installation Kit									81	27	3	114	38	3
Gas Particulate Filter Unit (GPFU)	A		90	45	2	80	40	2	54	27	2	76	38	2
Manuals			350						350					
Engineering Support - OGA			832			811			745			687		
Engineering Support			2164			2087			1961			1888		
TOTAL			12301			11523			8946			10622		

Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No:					Date: February 1998				
OTHER PROCUREMENT / 3 / Other Support Equipment					P-1 Line Item Nomenclature:				
WBS Cost Elements:					GENERATOR, SMOKE, MECH M58 (M99107)				
Fiscal Years					Date RFP Issue				
					Date Revisn Avail				
					Specs Avail Now?				
					Unit Cost \$000				
					QTY Each				
					Date of First Delivery				
					Award Date				
					Location of PCO				
					Contract Method and Type				
					Contractor and Location				
Smoke Generator Components*									
FY97					Robotic Systems Tech				
FY98					Westminster, Maryland				
FY99									
Drivers Vision Enhancer/Cdr Display** (M58)									
FY97					Texas Instruments, Dallas, Texas				
FY98					Texas Instruments, Dallas, Texas				
FY99					TBS				
Gas Particulate Filter Unit (GPFU)									
FY97					Industrial Design Labs				
FY98					Chula Vista, CA				
FY99									
M58 Application Kit									
FY97					Anniston Army Depot, Alabama				
FY98					Anniston Army Depot, Alabama				
FY99					Anniston Army Depot, Alabama				
M58 System Conversion									
FY97					Anniston Army Depot, Alabama				
FY98					Anniston Army Depot, Alabama				
FY99					Anniston Army Depot, Alabama				
REMARKS:					*The smoke generator components contract was awarded as the 2nd year of the M56 multi-year contract.				
					**The Commander's Display was added in FY97. Re-negotiated onto Texas Instruments contract for FY96 and FY97 quantities/costs.				







Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 3 / Other Support Equipment												LT VEH OBSCURANT SMK SYS (G70700)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code:												A	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty					486	2363	929					3778	
Gross Cost	0.0	0.0	0.0	0.0	2.1	4.6	2.2	0.0	0.0	0.0	0.0	8.9	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	0.0	0.0	0.0	2.1	4.6	2.2	0.0	0.0	0.0	0.0	8.9	
Initial Spares													
Total Proc Cost	0.0	0.0	0.0	0.0	2.1	4.6	2.2	0.0	0.0	0.0	0.0	8.9	
Flyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:**  
The Light Vehicle Obscurant Smoke System (LVOSS) is a self-defense smoke/obscurant device externally mounted on the vehicle. Potential threats to U.S. areas of interest and national security exist in every region of the world. LVOSS counters threat weapon systems operating in the visual and near infrared portions of the electromagnetic spectrum. LVOSS enhances the survivability of the vehicle and is employed when the vehicle position is compromised. LVOSS launcher hardware consists of the M7 Lightweight Discharger and either a M304/M305/M310 Installation Kit. The M7 Discharger is made from a light weight material (Xenoy) and has four launch tubes capable of firing grenades in a sixty degree arc. The installation kits contain an arming and firing unit (A/FU), wiring harness and the hardware needed to mount the A/FU, wiring harness and M7 Discharger(s). The M304 Installation Kit is compatible with the Infantry Tube-launched Optical-tracked Wire-guided (TOW) equipped HMMWV (M966). The M305 AND M310 Installation Kits mount the A/FU, wiring harness, and four M7 dischargers to the M1025 series HMMWV and M1114 HMMWV used by the Military Police respectively. LVOSS components are integrated as a complete system, and operated from within the vehicle via the A/FU. The host vehicle will retain its combat load and operational capabilities in mobility, firepower and communications when configured with the LVOSS.

**JUSTIFICATION:**  
FY99 funds provide obscurant smoke capabilities for concealment of light vehicles when operating in a hostile environment. LVOSS will operate in support of Infantry and Military Police units. The FY99 program supports complete fielding of Force Package (FP) 1 and 2, and initiates fielding into FP-3.



Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998			
Appropriation / Budget Activity/Serial No:			P-1 Line Item Nomenclature:										
OTHER PROCUREMENT / 3 / Other Support Equipment			LT VEH OBSCURANT SMK SYS (G70700)										
WBS Cost Elements: Fiscal Years			Contract Method and Type		Location of PCO		Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
LAUNCHERS AND INSTALLATION KITS FY 98 FY 99			Centech Gp, Inc, Alexandria, VA Centech Gp, Inc, Alexandria, VA		CBDCOM CBDCOM		Jan-98 Nov-98	Oct-98 May-99	486 2363	1 2	YES	###	
REMARKS: *Award via 8(a) set aside using alpha contracting method.													







Exhibit P-40, Budget Item Justification Sheet											Date:	
Appropriation / Budget Activity/Serial No:											February 1998	
OTHER PROCUREMENT / 3 / Other Support Equipment											P-1 Item Nomenclature:	
Program Elements for Code B Items:											RIBBON BRIDGE (MA8890)	
Code:											Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	268.5	0.0	4.1	4.4	4.1	8.8	12.3	14.7	26.7	31.4	0.0	375.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	268.5	0.0	4.1	4.4	4.1	8.8	12.3	14.7	26.7	31.4	0.0	375.1
Initial Spares												
Total Proc Cost	268.5	0.0	4.1	4.4	4.1	8.8	12.3	14.7	26.7	31.4	0.0	375.1
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Ribbon Bridge consists of Interior Bays (M26600), Ramp Bays (M26700), Bridge Erection Boats (M23600), and Transporters (M26800). These components are required to transport, launch, erect and retrieve a floating bridge up to 200 meters long per bridge company. Ribbon Bridges have a Military Load Capacity (MLC) of 70 tons and are used to transport weapon systems, troops and supplies over water when permanent bridges are not available.

JUSTIFICATION: FY 99 continues the procurement of the common Bridge Transporter (CBT), with associated Bridge Adaptor Pallets (BAPs) and Improved Boat Cradles (IBC) which began in FY 96. The Ribbon Bridge provides the capability for a continuous floating roadway or raft to be constructed for transporting assault and tactical vehicles across streams and rivers that cannot be forded. Improvements provide a vehicle that will replace the current overaged fleet with a vehicle that will improve mobility and enhance readiness by decreasing construction and retrieval time.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment			P-1 Line Item Nomenclature: BRIDGE, FLOAT-RIBBON, TRANSPORTER (M26800)			Weapon System Type:			Date: February 1998		
OPA Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
1. Vehicle														
Common Bridge Transporter			3419	44	78	1374	22	62	1369	31	44	3031	66	46
Bridge Adaptor Pallet			102	2	51	2375	50	48	535	10	54	3341	60	56
Boat Cradle			300	12	25	318	10	32	829	34	24	548	22	25
<b>SUBTOTAL</b>			<b>3821</b>			<b>4067</b>			<b>2733</b>			<b>6920</b>		
2. Engineering Changes			33			6			80			203		
3. Testing			28			73			80			371		
4. Documentation			81			13			290			109		
5. Quality Assurance Support									45			48		
6. Special Tools									111			73		
7. Fielding Support			49			15			221			513		
8. Engineering Support			47			113			150			174		
9. Project Mgmt Support						159			261			293		
10. Federal Retail Excise Tax (FRET)									131			120		
Notes:														
1. Production Verification Test (PVT) was completed Sep 97 and Milestone III and TC-STD decision for CBT, BAP, and IBC planned for Mar 98.														
2. P5 for SSN M26800 shows current affordable quantities and may differ from quantities shown on P1/P40.														
<b>TOTAL</b>			<b>4059</b>			<b>4446</b>			<b>4102</b>			<b>8824</b>		

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No:		P-1 Line Item Nomenclature:								
OTHER PROCUREMENT / 3 / Other Support Equipment		BRIDGE, FLOAT-RIBBON, TRANSPORTER (M26800)								
WBS Cost Elements:	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date	
Fiscal Years	Contractor and Location									
<b>Common Bridge Transporter</b>										
FY 96	Combined Bridge Team	TACOM	Dec-96	Oct-97	44	78	Yes		N/A	
FY 97	Combined Bridge Team	TACOM	Oct-97	Jul-98	22	62	Yes		N/A	
FY 98	Combined Bridge Team	TACOM	May-98	Jan-99	31	44	Yes		N/A	
FY 99	TBS	TACOM	Dec-98	Aug-99	66	46	Yes		Jul-98	
<b>Bridge Adaptor Pallet</b>										
FY 96	Combined Bridge Team	TACOM	Dec-96	Aug-98	2	51	Yes		N/A	
FY97	Combined Bridge Team	TACOM	Dec-96	Oct-97	10	48	Yes		N/A	
FY 97	Combined Bridge Team	TACOM	Oct-97	Aug-98	40	48	Yes		N/A	
FY 98	Combined Bridge Team	TACOM	May-98	May-99	10	54	Yes		N/A	
FY 99	TBS	TACOM	Dec-98	Aug-99	60	56	Yes		Jul-98	
<b>REMARKS:</b> Combined Bridge Team is located in Alexandria, VA.										





Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 3 / Other Support Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												METALLIC MINE DETECTOR, VEHICLE MOUNTED (M80100)
Other Related Program Elements:												
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty					7	2						9
Gross Cost	0.0	0.0	0.0	0.0	12.3	3.8	0.0	0.0	0.0	0.0	0.0	16.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	12.3	3.8	0.0	0.0	0.0	0.0	0.0	16.1
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	12.3	3.8	0.0	0.0	0.0	0.0	0.0	16.1
Flyaway U/C												
Wpn Sys Proc U/C												

**DESCRIPTION:**

The Interim Vehicle Mounted Mine Detection System (IVMMD) provides the U.S. Army with the capability to detect metal cased antitank mines on routes. The system gives the Army critical capabilities to conduct route clearing missions in wartime, stabilization operations and humanitarian/peacekeeping missions. The system will allow U.S. Forces to maintain mobility along critical routes of communications. The IVMMD is the first vehicle mounted mine detection system fielded by the U.S. Army. The IVMMD will be fielded to selected units as an interim system for use in other than war operations where U.S. troops may be involved. It significantly reduces the exposure of soldiers to hostile fire and greatly increases route clearance missions in all tactical environments over hand held systems.

**JUSTIFICATION:**

FY1999 funds will procure Mine Detection Systems and Remote Control Kits and provide for their installation to host platforms.



Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment			P-1 Line Item Nomenclature: METALLIC MINE DETECTOR, VEHICLE MOUNTED (M80100)			Weapon System Type:			Date: February 1998		
OPA			FY 96			FY 97			FY 98			FY 99		
Cost Elements			TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
1. MINE DETECTION SYSTEM									9800	7	1400	2910	2	1455
2. REMOTE CONTROL KIT FOR PLATFORM									1050	7	150	300	2	150
3. REFURBISHMENT									425					
4. PROJECT MANAGEMENT									120			30		
5. ENGINEERING SUPPORT									577			525		
6. DOCUMENTATION									73			10		
7. QUALITY ASSURANCE									75					
8. ACCEPTANCE TESTING									161					
TOTAL									12281			3775		

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No:		Weapon System Type:			P-1 Line Item Nomenclature:					
OTHER PROCUREMENT / 3 / Other Support Equipment					METALLIC MINE DETECTOR, VEHICLE MOUNTED (M80100)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
1. MINE DETECTION SYSTEM FY 98 FY 99	LNY, Manassas, Va. LNY, Manassas, Va.	Option Option	CECOM CECOM	Mar-98 Nov-98	Jul-98 Mar-99	7 2	1400 1455	Yes Yes		
2. REMOTE CONTROL KIT FOR PLATFORM FY 98 FY 99	Omni Tech, Denver Co. Omni Tech, Denver Co.	SS/FP Option	JPO-UGV JPO-UGV	Mar-98 Nov-98	Jul-98 Mar-99	7 2	150 150	Yes Yes		
<b>REMARKS:</b> Installation of Remote Control Kits to host platform will be conducted at the detector delivery site and operationally tested prior to systems delivery to the field. Joint Project Office-Unmanned Ground Vehicles (JPO-UGV) will oversee the development and testing of remote control kits prior to and during operational testing.										





Exhibit P-40, Budget Item Justification Sheet											Date:
Appropriation / Budget Activity/Serial No:											February 1998
OTHER PROCUREMENT / 3 / Other Support Equipment											P-1 Item Nomenclature:
Program Elements for Code B Items:											BN COUNTERMINE SIP (X01100)
Code:											Other Related Program Elements:
A											
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty											
Gross Cost	0.0	0.0	0.0	3.3	3.7	18.3	7.7	0.0	0.0	0.0	32.9
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc (P-1)	0.0	0.0	0.0	3.3	3.7	18.3	7.7	0.0	0.0	0.0	32.9
Initial Spares											
Total Proc Cost	0.0	0.0	0.0	3.3	3.7	18.3	7.7	0.0	0.0	0.0	32.9
Flyaway U/C											
Wpn Sys Proc U/C											

DESCRIPTION: This funding provides for the procurement, application, and fielding costs for the System Improvement Plan Kit for the Battalion Countermine Set used on M1 Series tanks. This kit includes: changes to the M1 Mine Clearing Blade System including wiring harness improvements, travel lock upgrades, strengthened moldboard extensions, a plowing level indicator, a centerline deflector kit, and a wire cutter kit; improvements to the M1 Mine Clearing Roller System including an improved quick release system, a simplified magnetic dogbone assembly, and a soft soil/sand kit; and a complete redesign of a cleared lane minefield marking system.

JUSTIFICATION: FY99 funds will support improvements such as the blade's wiring harness, the travel lock upgrades to the blade, the strengthened moldboard extensions, and the roller quick release system have been flagged as safety issues. The improvements comprising this kit are the result of afteraction reports following Operation Desert Storm. Numerous safety issues as well as mission reliability have been addressed. Failures in any of these components would not only result in mission failure but could result in catastrophic damage to the host vehicle and injury/death to the vehicle's crew. All other changes (i.e. level indicators, centerline deflectors, wire cutters, magnetic dogbone simplification, soft soil/sand kit) will enhance mission capability and reliability.

Exhibit P-40M Budget Item Justification Sheet												Date	February 1998		
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature		BN COUNTERMINE SIP (X01100)											
OTHER PROCUREMENT / 3 / Other Support Equipment															
Program Elements for Code B Items		Code		Other Related Program Elements											
Description		Fiscal Years													
OSIP NO.	Classification	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TC	Total				
Countermine Battalion Set Improvement Kit															
1-96-05-XXXX	OP	0.0	0.0	3.3	3.7	18.3	7.7	0.0	0.0	0.0	32.9				
Totals		0.0	0.0	3.3	3.7	18.3	7.7	0.0	0.0	0.0	32.9				

INDIVIDUAL MODIFICATION																																																																																																																			
MODIFICATION TITLE: COUNTERMINE BATTALION SET IMPROVEMENT KIT 1-96-05-XXXX										Date																																																																																																									
MODELS OF SYSTEMS AFFECTED: Battalion Countermine Set for use on M1 Series tanks										February 1998																																																																																																									
<b>DESCRIPTION / JUSTIFICATION:</b> Procurement, application, and fielding of the System Improvement Plan Kit to the Battalion Countermine Set used on M1 Series tanks. This kit, a result of the afteraction reports following Operation Desert Storm, includes: changes to the M1 Mine Clearing Blade System including wiring harness improvements, travel lock upgrades strengthened moldboard extension, the addition of a plowing level indicator, the addition of a centerline deflector kit, and the addition of a wire cutter kit; improvements to the M1 Mine Clearing Roller System including an improved quick release system, a simplified magnetic dogbone assembly, and the addition of a soft soil/sand kit; and a complete redesign of a cleared lane minefield marking system. These changes will enhance set and mission reliability and reduce the possibility of host vehicle damage as well as injury or death to the crew of said vehicle.																																																																																																																			
<b>DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:</b> <table border="0"> <tr> <td>Technical Data Package (TDP) Validation and Certification</td> <td>Planned</td> <td>Accomplished</td> </tr> <tr> <td>Award Contract for Modification (MOD) Kits</td> <td>Sep-97</td> <td>Sep-97</td> </tr> <tr> <td>First MOD Kit Delivered</td> <td>Apr-98</td> <td></td> </tr> <tr> <td>First Unit Equipped</td> <td>Jun-98</td> <td></td> </tr> <tr> <td>Last MOD Kit Delivered</td> <td>Jun-98</td> <td></td> </tr> <tr> <td>Last Unit Equipped</td> <td>Oct-00</td> <td></td> </tr> <tr> <td></td> <td>Sep-01</td> <td></td> </tr> </table>												Technical Data Package (TDP) Validation and Certification	Planned	Accomplished	Award Contract for Modification (MOD) Kits	Sep-97	Sep-97	First MOD Kit Delivered	Apr-98		First Unit Equipped	Jun-98		Last MOD Kit Delivered	Jun-98		Last Unit Equipped	Oct-00			Sep-01																																																																																				
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<b>Installation Schedule:</b> <table border="1"> <thead> <tr> <th rowspan="2">Pr Yr</th> <th colspan="4">FY 1997</th> <th colspan="4">FY 1998</th> <th colspan="4">FY 1999</th> <th colspan="4">FY 2000</th> <th colspan="4">FY 2001</th> </tr> <tr> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> </tr> </thead> <tbody> <tr> <td><b>Inputs</b></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> </tr> <tr> <td><b>Outputs</b></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> </tr> <tr> <td><b>Totals</b></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> </tr> </tbody> </table>												Pr Yr	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	<b>Inputs</b>																					<b>Outputs</b>																					<b>Totals</b>																				
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<b>METHOD OF IMPLEMENTATION:</b> Contract/Depot <b>Contract Dates:</b> FY 1997 <b>Delivery Date:</b> FY 1997																																																																																																																			
<b>ADMINISTRATIVE LEADTIME:</b> Months <b>PRODUCTION LEADTIME:</b> 2 Months <b>Contract Dates:</b> FY 1998 <b>Delivery Date:</b> FY 1998																																																																																																																			

INDIVIDUAL MODIFICATION													
Date February 1998													
COUNTERMINE BATTALION SET IMPROVEMENT KIT 1-96-05-XXXX													
MODIFICATION TITLE (Cont):													
FINANCIAL PLAN: (\$ in Millions)													
	FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		TOTAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty
RDT&E													
PROCUREMENT													
Kit Quantity	1250	1.7	1200	3.7	1250	16.6	200	5.1					3900 27.0
Installation Kits													
Installation Kits, Nonrecurring													
Equipment													
Equipment, Nonrecurring													
Engineering Change Orders													
Data													
Training Equipment													
Support Equipment													
Other													
Interim Contractor Support													
Installation of Hardware													
FY 1996 & Prior Eqpt -- Kits													
FY 1997 Eqpt -- Kits													
FY 1998 Eqpt -- Kits	800	1.6	450										1.6
FY 1999 Eqpt -- Kits			600										1.200
FY 2000 Eqpt -- kits					600	1.7	650	1.7					3.4
FY 2001 Eqpt -- kits							200	0.9					0.9
FY 2002 Eqpt -- kits													
FY 2003 Eqpt -- kits													
TC Equip-Kits													
Total Installation	800	1.6	1050		1200	1.7	850	2.6					5.8
Total Procurement Cost		3.3		3.7		18.3		7.7					32.9



Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:				P-1 Item Nomenclature:									
OTHER PROCUREMENT / 3 / Other Support Equipment				ARMORED COMBAT EARTHMOVER (M05900)									
Program Elements for Code B Items:				Other Related Program Elements:									
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
				Code: A									
Proc Qty	467			51								518	
Gross Cost	284.0	0.0	0.0	51.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	335.0	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	284.0	0.0	0.0	51.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	335.0	
Initial Spares													
Total Proc Cost	284.0	0.0	0.0	51.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	335.0	
Flyaway U/C													
Wpn Sys Proc U/C													

Description: The M9 Armored Combat Earthmover (ACE) is a highly mobile, high speed, tracked, armored combat earthmover. It is air transportable in C130, C141, and C5 aircraft. It provides light armor and chemical protection for the operator and armor protection for the engine and power train. The M9 provides the unique capability to travel at high speeds while retaining the capability for heavy digging. It has been provided to combat engineers and engineer support units. Its primary use is to support maneuver forces by digging survivable fighting positions for tank, infantry, and artillery units and create anti-tank ditches for obstacles.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT/3/Other Support Equipment			P-1 Line Item Nomenclature: ARMORED COMBAT EARTHMOVER (M05900)			Weapon System Type:			Date: February 1998		
OPA Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. Hardware						45240	51	887						
2. Micro-Climatic Cooling System (MCS) Plus Enclosure		A				2672								
3. Engines						1291								
4. Government Furnished Materiel						910								
5. Engineering In-House						482								
6. Engineering Change Order						410								
TOTAL						51005								

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No:		Weapon System Type:			P-1 Line Item Nomenclature:					
OTHER PROCUREMENT/3/Other Support Equipment					ARMORED COMBAT EARTHMOVER (M05900)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
1. Hardware FY 97	United Defense LP, York, PA.	SS/FP	TACOM	Sep-97	May-99	51	887	YES	N/A	
REMARKS: Award date SEP 97 due to late receipt of funds (Jun 97).										





Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 3 / Other Support Equipment												P-1 Item Nomenclature:
AIR CONDITIONERS VARIOUS SIZE/CAPACITY (MF9300)												
Program Elements for Code B Items:												
Code:												Other Related Program Elements:
A												
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty												
Gross Cost	233.9	3.1	1.5	1.4	4.7	4.5	4.6	1.4	7.1		265.9	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	233.9	3.1	1.5	1.4	4.7	4.5	4.6	1.4	7.1		265.9	
Initial Spares												
Total Proc Cost	233.9	3.1	1.5	1.4	4.7	4.5	4.6	1.4	7.1		265.9	
Flyaway U/C												
Wpn Sys Proc U/C												
<p>DESCRIPTION: This budget line represents the Army's family of tactical Environmental Control Units, (ECU's), commonly known as Air Conditioners (A/C's). ECU's provide both cooling and electrical heating for controlled environmental concept. They range in size from 9,000 to 60,000 BTU, and are powered by a wide range of common currents supplied for various systems either by mobile electric power systems or hardwired into existing facilities. New technology has been incorporated into the 18,000 BTU and 36,000 BTU that allows the ECU to accept various power phases, voltages, and hertz. The Multiple-Power-Input (MPI) Technology has allowed for a reduction in the number of configurations managed; for example, a single MPI unit now replaces from two to six different configurations depending on the specific line item number (LIN) involved. The sole exception, which will not incorporate MPI technology, is the 60,000 BTU, Compact Vertical, which remains as a 3 Phase, 208 Volts, 50/60 hertz power requirement. All ECU's are based mounted and electric motor driven. ECU's also provide dehumidification and filtering of air in support of environmentally sensitive electronic equipment in mobile shelters and vans. Critical electronic equipment housed within systems produces heat that must be controlled for proper operation of this equipment. ECU's support 181 separate tactical weapon systems. The majority of the weapon systems are command, control, and communication oriented. The other applications include ground support equipment, satellite communications, intelligence gathering systems, petroleum and water logistics laboratories, electronic shop sets, Test, Measurement and Diagnostic Equipment (TMDE), aviation shop sets, and topographic support sets.</p> <p>JUSTIFICATION: FY99 funds will support Environmental Control Units (ECUs) that are required as a component or separately authorized in support of fielded tactical weapon systems. They are required to fill existing shortage or provide replacements for assets that are overaged, non-supportable, and non-repairable. ECU's are critical to the system they support. Without these ECU's, critical systems become incapable of performing their mission. Additionally, ECU's are required to fill urgent shortages on new fielding of high priority weapon systems. Recent</p>												

Exhibit P-40C Budget Item Justification Sheet			Date
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature	
OTHER PROCUREMENT / 3 / Other Support Equipment		AIR CONDITIONERS VARIOUS SIZE/CAPACITY (MFS300)	
Program Elements for Code B Items	Code	Other Related Program Elements	
<p>Public laws that restrict the production of Class 1 and Class II Ozone Depleting Chemicals, (R-12, Class 1 and R-22, Class II (continued) 129 are the refrigerants currently used in A/C's and ECU's) have limited the long term supportability of fielded A/C's and ECU's.</p> <p>Government Engineering planned for FY 99 supports four production contract awards. Contracts being supported are two 9,000 BTU (vertical and horizontal) and two 36,000 BTU (vertical and horizontal) contracts. FY 99 program includes acquisition of the 9,000 BTU (vertical as horizontal) and 36,000 BTU vertical and horizontal Multi-Power-Input Technology (MPI) Units. FY 97 Acquisition program for the 9, 000 BTU (V/H) ECUs slipped to FY 98 due to technical difficulties encountered with these units.</p>			

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment			P-1 Line Item Nomenclature: AIR CONDITIONERS VARIOUS SIZE/CAPACITY (MF9300)			Weapon System Type:			Date: February 1998		
OPA Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
Air Conditioner, 9000 BTU C/V (M910) Warranty	A					140 3	25	6	140 3	25	6	280 6	50	6
Air Conditioner, 9000 BTU C/H (M916) Warranty	A					840 16	150	6	840 16	150	6	1680 33	300	6
Air Conditioner, 36000 BTU C/V (M813) Warranty	A		267 3	35	8							445 5	50	9
Air Conditioner, 36000 BTU C/H (M811) Warranty	A		1897 11	311	6							1335 15	150	9
Government Engineering			905						414			401		
Software						462			20			450		
TOTAL			3083			1461			1433			4650		



Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No:		Weapon System Type:		P-1 Line Item Nomenclature:						
OTHER PROCUREMENT / 3 / Other Support Equipment				AIR CONDITIONERS VARIOUS SIZE/CAPACITY (MF9300)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revis Avail	RFP Issue Date
Air Conditioner, 9000 BTU C/V (M910)	TBS	C/FP-RQ-3(1)	CECOM	Apr-98	Nov-00	25	6	YES		Feb-98
FY 97	TBS	C/FP-RQ-3(2)	CECOM	Apr-98	Jan-01	25	6	YES		Feb-98
FY 98	TBS	C/FP-RQ-3(3)	CECOM	Jun-99	Feb-00	50	6	YES		Feb-98
Air Conditioner, 9000 BTU C/H (M916)	TBS	C/FP-RQ-3(1)	CECOM	Apr-98	Jul-99	150	6	YES		
FY 97	TBS	C/FP-RQ-3(2)	CECOM	Apr-98	Jan-00	150	6	YES		Feb-98
FY 98	TBS	C/FP-RQ-3(3)	CECOM	Apr-99	Apr-00	300	6	YES		Feb-98
Air Conditioner, 36000 BTU C/V (M813)	TBS	C/FP-RQ-3(1)	CECOM	May-99	Nov-00	50	9	YES		Dec-98
FY 97	TBS	C/FP-RQ-3(1)	CECOM	May-99	Mar-01	150	9	YES		Dec-98
Air Conditioner, 36000 BTU C/H (M811)	TBS	C/FP-RQ-3(1)	CECOM	May-99	Mar-01	150	9	YES		Dec-98
FY 97	TBS	C/FP-RQ-3(1)	CECOM	May-99	Mar-01	150	9	YES		Dec-98
FY 98	TBS	C/FP-RQ-3(1)	CECOM	May-99	Mar-01	150	9	YES		Dec-98
FY 99	TBS	C/FP-RQ-3(1)	CECOM	May-99	Mar-01	150	9	YES		Dec-98
REMARKS:										

FY 98 / 99 BUDGET PRODUCTION SCHEDULE										P-1 Item Nomenclature: AIR CONDITIONERS VARIOUS SIZE/CAPACITY (MF9300)										Date: February 1998																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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## February 1998

Exhibit P-21, Production Schedule

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT/OTHER SUPPORT EQUIPMENT												KITCHEN, CONTAINERIZED, FIELD (CK) (M86400)	
Program Elements for Code B Items:												Other Related Program Elements:	
604713												Code: B	
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog		
Proc Qty					77	75	76	61	108		397		
Gross Cost	0.0	0.0	0.0	0.0	7.4	7.2	7.2	5.8	10.4		38.0		
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	0.0	0.0	0.0	7.4	7.2	7.2	5.8	10.4		38.0		
Initial Spares													
Total Proc Cost	0.0	0.0	0.0	0.0	7.4	7.2	7.2	5.8	10.4	0.0	38.0		
Flyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:** The Containerized Kitchen (CK) is a mobile field kitchen capable of providing 550 soldiers with three hot meals per day. The CK will consist of a combination of existing military standard kitchen equipment and commercial components integrated into an expandable 20' container mounted on a tactical trailer and towed by a 5-ton Family of Medium Tactical Vehicles (FMTV) cargo truck. It will include electrical power from an on-board generator, and an environmental control unit for heating and cooling.

**JUSTIFICATION:** The CK is needed to replace overage Mobile Kitchen Trailers (MKT), first fielded in 1975, which do not have the capability to support current Army field feeding doctrine. The CK will have more than twice the capacity of the MKT and will replace the MKT on a one-for-two basis, enabling more efficient ration preparation. The CK will also provide improved safety and efficiency, more comfortable and sanitary working environment, and electrical power and running water utilities.

Exhibit P-5, Weapon WPN SYST Cost Analysis				Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT/OTHER SUPPORT EQUIPMENT				P-1 Line Item Nomenclature: KITCHEN, CONTAINERIZED, FIELD (M88400)				Weapon System Type:		Date: February 1998	
Weapon Svstem Cost Elements				FY 96		FY 97		FY 98		FY 99					
ID	CD			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
				\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Hardware													5920	74	80
Assembly													1052		
Engineering Support													233		
Testing													230		
Total															7435

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT/OTHER SUPPORT EQUIPMENT		Weapon System Type:			P-1 Line Item Nomenclature: KITCHEN, CONTAINERIZED, FIELD (M86400)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
FY99	TBS	C/CPIF-REQ5(1)	SSCOM	Nov-98	Nov-99	74	80	No	Yes	Jun-98
REMARKS:										





Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT/3/OTHER SUPPORT EQUIPMENT												Sanitation Center, Field Feeding (M66500)	
Program Elements for Code B Items:												Other Related Program Elements:	
0604713A												Code: B	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty			52	55		64	54	150	150	534		1059	
Gross Cost	0.0	1.4	0.7	0.7	0.0	1.4	0.7	1.9	1.9	6.6	0.0	15.2	
Less PY Adv Proc													
Plus CY Adv Proc			1.4									1.4	
Net Proc (P-1)	0.0	1.4	0.7	0.7	0.0	1.4	0.7	1.9	1.9	6.6	0.0	15.3	
Initial Spares													
Total Proc Cost	0.0	1.4	0.7	0.7	0.0	1.4	0.7	1.9	1.9	6.6	0.0	15.3	
Flyaway U/C													
Wpn Sys Proc U/C													

**NARRATIVE:** Food Sanitation Center consists of a tent, dishwashing racks, sinkwells, drying racks, pot storage racks and burner units. It is used by Field Services Companies to clean and sanitize cooking utensils as part of Army Field Feeding Services.

**JUSTIFICATION:** FY99 funding required for use in the Army Field Feeding System - Future, Containerized Kitchen, DEPMEDS, Force Provider and all other Army Field Feeding operations.

Exhibit P-5, Weapon WPN SYST Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT /OTHER SUPPORT EQUIPMENT			P-1 Line Item Nomenclature: Sanitation Center, Field Feeding			Weapon System Type:			Date: February 1998		
Weapon Svstem Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Hardware			685	52	13	664	55	12				834	64	13
Engineering Support												150		
Testing												100		
Logistics												130		
Quality Assurance												150		
TOTAL			685			664						1364		

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No:		Weapon System Type:		P-1 Line Item Nomenclature:						
OTHER PROCUREMENT/OTHER SUPPORT EQUIPMENT				Sanitation Center, Field Feeding						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Hardware										
FY96	Penn Metals, PA	C/FP	SSCOM	Jan-96	Jun-96	52	13	y	N/A	Jun-95
FY97	Penn Metals, PA	C/FP	SSCOM	Jan-97	Mar-97	55	13	y	N/A	N/A
FY99	TBD	FP	SSCOM	Jan-99	Jun-99	64	13	y	N/A	Jun-98
REMARKS:										



Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 3 / Other Support Equipment												FIRETRUCKS (MA9600)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty						45		45	45	45		180	
Gross Cost	142.2	0.0	0.0	0.0	0.0	15.0	0.0	15.0	15.0	15.0	0.0	202.2	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	142.2	0.0	0.0	0.0	0.0	15.0	0.0	15.0	15.0	15.0	0.0	202.2	
Initial Spares													
Total Proc Cost	142.2	0.0	0.0	0.0	0.0	15.0	0.0	15.0	15.0	15.0	0.0	202.2	
Flyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:** These vehicles are of standard commercial design with only slight modifications. This vehicle includes Pumper Trucks, Structural Pumps, Ladder Trucks, Brush Trucks, Rescue Trucks, Telesquirt Trucks, Brush Tankers, and Multi-purpose fire trucks.

**JUSTIFICATION:** The Army's Fire Fighting Vehicles are essential to all military installations and to many local communities. These vehicles are essential to preserving life and property. The fleet is currently approximately 22% below Army Acquisition Objective levels with 55% of the on-hand vehicles overaged. Many of these overaged vehicles are unsafe, unable to respond to fire calls, and uneconomical to repair. The current condition of the fleet creates a situation in which a disaster could easily occur. Besides the dangerous situation that this creates for Army installations, it also violates many of our mutual support agreements that many Army installations have in effect with their local communities. Our Army fire vehicles not only respond to fires on installations and within the local communities, but also to forest fires, airline disasters, train disasters, automobile accidents, and hazardous material incidents. Without these fire vehicles we put the lives of our soldiers, our dependents, our civilian work force, and the local community in danger. The Army cannot afford to continue to "waste" limited resources on maintenance and repair of these old, unsafe fire vehicles. Lives are in jeopardy.

	Qty	Amt
The following vehicles will be purchased: Ladder Truck	12	\$4,920
Structural Pumper	6	\$1,350

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment			P-1 Line Item Nomenclature: FIRETRUCKS (MA9600)			Weapon System Type:			Date: February 1998		
ID	CP	OPA	FY 96			FY			FY 98			FY 99		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1.		Ladder Truck										4920	12	410
2.		Structural Pumper										1350	6	225
3.		Rescue Pumper										5130	18	285
4.		Airfield Crash Truck										3600	9	400
Total												15000		

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998
Appropriation / Budget Activity/Serial No:		Contractor and Location		Contract Method and Type		Location of PCO		Award Date		P-1 Line Item Nomenclature:	
OTHER PROCUREMENT / 3 / Other Support Equipment										FIRETRUCKS (MA9600)	
WBS Cost Elements:	Fiscal Years										
Ladder Truck	FY99	GSA		MIPR/FP	TACOM	Jan-99	Jul-99	12	410	YES	NA
Structural Pumper	FY99	GSA		MIPR/FP	TACOM	Jan-99	Jul-99	6	225	YES	NA
Rescue Pumper	FY99	GSA		MIPR/FP	TACOM	Jan-99	Jul-99	18	285	YES	NA
Airfield Crash Truck	FY99	GSA		MIPR/FP	TACOM	Jan-99	Jul-99	9	400	YES	NA
REMARK											

Exhibit P-40, Budget Item Justification Sheet											Date:
Appropriation / Budget Activity/Serial No:											February 1998
OTHER PROCUREMENT / 3 / Other Support Equipment											P-1 Item Nomenclature:
Program Elements for Code B Items:											TRUCK, FIREFIGHTING, MULTI-PURPOSE (M15800)
Other Related Program Elements:											
Code: A											
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty					6	12	12	12	12		54
Gross Cost	0.0	0.0	0.0	0.0	1.7	4.2	4.3	4.5	4.7	0.0	19.4
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc (P-1)	0.0	0.0	0.0	0.0	1.7	4.2	4.3	4.5	4.7	0.0	19.4
Initial Spares											
Total Proc Cost	0.0	0.0	0.0	0.0	1.7	4.2	4.3	4.5	4.7	0.0	19.4
Flyaway U/C											
Wpn Sys Proc U/C											

**DESCRIPTION:** The multi-purpose tactical fire truck is issued by Army's tactical engineer units and at some Army installations. It is primarily used to fight aircraft crash and brush fires and at ammunition storage areas in theater. The crew ranges from three to five firefighters. However, the new tactical fire truck that will be procured will have a six man cab in order to carry an entire firefighting team. Also, the new tactical vehicle will have a minimum of a 1000 gallon capacity, while the current trucks have only a 660 gallon capacity. The new tactical truck will have all-wheel drive rather than four wheel drive.

**JUSTIFICATION:** The FY99 funding will procure six fire trucks to begin filling Force Package 1 requirements. The fire trucks currently fielded are unreliable and overage. Furthermore, these trucks do not meet user needs or National Fire Protection Agency Standards. The 1000 gallon water capacity is necessary to land Air Force aircraft on Army airfields. All wheel drive is essential for cross-country mobility. Procurement of fire trucks with new specifications will provide true tactical and multi-purpose capabilities.



Exhibit P-5, Weapon OPA Cost Analysis				Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment				P-1 Line Item Nomenclature: TRUCK, FIREFIGHTING, MULTI-PURPOSE (M15800)				Weapon System Type:		Date: February 1998		
OPA Cost Elements				FY 96		FY 97		FY 98		FY 99						
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
Hardware																
Government Engineering	A										1657	5				331
Quantities shown are current and may differ from P1/P40																
TOTAL																
1708																

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No:		Weapon System Type:		P-1 Line Item Nomenclature:						
OTHER PROCUREMENT / 3 / Other Support Equipment				TRUCK, FIREFIGHTING, MULTI-PURPOSE (M15800)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Hardware FY99	TBS	C/FP	TACOM	Jan-99	Jul-99	5	331	YES	NA	Aug-98
REMARKS:										



Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 3 / Other Support Equipment												ARMY SPACE HEATER, 120,000 BTU (ASH) (M19600)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty	714		167	258	94	110	96	99	100	659		2297	
Gross Cost	2.0	2.8	1.4	2.5	0.9	1.1	0.9	1.0	1.0	6.3		19.8	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	2.0	2.8	1.4	2.5	0.9	1.1	0.9	1.0	1.0	6.3		19.8	
Initial Spares													
Total Proc Cost	2.0	2.8	1.4	2.5	0.9	1.1	0.9	1.0	1.0	6.3		19.8	
Flyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:** The Army Space Heater (ASH) is electrically powered requiring a maximum of 3 kilowatts of external power. It is thermostatically controlled using either diesel or jet petroleum-8 fuels to produce heat. The ASH is mobile and will deliver clean, heated or vented air through sealed, detachable, flexible ducts. It is suitable for arctic use. The main mission of this heater is to heat maintenance tents in cold environments so that soldiers can safely repair a wide variety of equipment such as trucks, tanks, helicopters, Hawk, Patriot, and Multiple Launch Rocket Systems. Additionally, it supports field artillery and medical units.

**JUSTIFICATION:** FY 99 funds will procure 110 Army Space Heaters to support critical mission essential Aviation, Armor, and Artillery Contingency Forces. This heater is a non-development item that will replace the current 250,000 BTU gasoline engine driven (GED) heater. It will correct the deficiencies found in the 250,000 BTU GED heater, specifically gasoline will be replaced by diesel fuel, meeting the DOD regulations to have one fuel on the battlefield. It will be safer for personnel operating equipment in enclosed areas because it reduces carbon monoxide emissions. The ASH is a stand alone item that supports the function of providing heat for maintenance, operations, and comfort.



Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998											
Appropriation / Budget Activity/Serial No:			Weapon System Type:			P-1 Line Item Nomenclature:															
OTHER PROCUREMENT / 3 / Other Support Equipment						ARMY SPACE HEATER, 120,000 BTU (ASH) (M19600)															
WBS Cost Elements:		Contractor and Location		Contract Method and Type		Location of PCO		Award Date		Date of First Delivery		QTY Each		Unit Cost \$		Specs Avail Now?		Date Revsn Avail		RFP Issue Date	
Fiscal Years																					
HARDWARE																					
FY 97		Engineering Air Sys., St. Louis, MO		C/FP OPT		CECOM		Sep-97		Jan-99		258		8		YES		NA		Jun-97	
FY 98		Engineering Air Sys., St. Louis, MO		CFP-OPT (1)		CECOM		Jul-98		Aug-99		94		9		YES		NA		Jun-97	
FY 99		Engineering Air Sys., St. Louis, MO		CFP-OPT (2)		CECOM		Oct-98		Oct-99		110		9		YES		NA		Jun-97	
REMARKS:																					









Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT/OTHER SUPPORT EQUIPMENT												LAUNDRY ADVANCED SYSTEM (LADS) (M86200)	
Program Elements for Code B Items:												Other Related Program Elements:	
604713													
Code: B													
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog		
Proc Qty					14	16	26	27	39		122		
Gross Cost	0.0	0.0	0.0	0.0	7.2	8.1	13.0	13.7	19.7		61.7		
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	0.0	0.0	0.0	7.2	8.1	13.0	13.7	19.7		61.7		
Initial Spares													
Total Proc Cost	0.0	0.0	0.0	0.0	7.2	8.1	13.0	13.7	19.7	0.0	61.7		
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION: The Laundry Advanced System (LADS) is an advanced water recycling mobile field laundry. A LADS system consists of two 200 lb drum laundry machines and a 30 kw generator mounted on an M-871 semi-trailer and towed by a five ton tractor. The LADS launders clothing at a rate of 400 pounds per hour, four times the capacity of the current M-85 field laundry. One LADS will replace four M-85s. It will recycle 99% of the water now used by four M-85s, eliminating the logistical burden of supplying and disposing of over 23,000 gallons of water per laundry per day. LADS is fully programmable and performs washing, extracting and drying cycles all in the same drum. Only two personnel are required to operate LADS, thereby reducing manpower requirements by 75% compared to four M-85s. LADS will be fielded to Field Service Companies to support soldiers as far forward as practical on the battlefield.

JUSTIFICATION: FY99 funding is required to meet critical initial fielding date of FY00. Adjustments of force structure are already in place to take advantage of the reduction in requirements for the Laundry Operators obtained with LADS. Initial fielding in FY00 must be met to replace obsolete, unserviceable M-85s, and to avoid having insufficient operators to accomplish this essential battlefield sustainment mission. Aging M-85s are becoming a severe maintenance and repair burden.

Exhibit P-5, Weapon WPN SYST Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT/3/OTHER SUPPORT EQUIPMENT		P-1 Line Item Nomenclature: LAUNDRY ADVANCED SYSTEM (LADS) (M88200)		Weapon System Type:		Date: February 1998		
Weapon Svstem Cost Elements		FY 96		FY 97		FY 98		FY 99		
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Hardware	B							6370	14	455
Engineering Support								467		
First Article Testing								50		
Interim Contractor Logistics								165		
Quality Assurance								164		
TOTAL								7216		

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998												
Appropriation / Budget Activity/Serial No: Procurement, Army / 9 / Unassigned			Weapon System Type:		P-1 Line Item Nomenclature:																	
WBS Cost Elements: Fiscal Years Hardware			Contractor and Location		Contract Method and Type		Location of PCO		Award Date		Date of First Delivery		QTY Each		Unit Cost \$000		Specs Avail Now?		Date Revisn Avail		RFP Issue Date	
FY99			Guild Associates Dublin, OH		C/CP/IF Req5(1)		SSCOM		Nov-98		Oct-99		14		455		No		Yes		Sep-98	
REMARKS:																						



Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 3 / Other Support Equipment												FLOODLIGHT SET, ELEC, TRL MTD, 4 LIGHTS (M72100)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty	750					113	110	218	220	223		1634	
Gross Cost	2.3	0.0	0.0	0.0	0.0	1.9	2.3	2.3	4.2	4.4		17.4	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	2.3	0.0	0.0	0.0	0.0	1.9	2.3	2.3	4.2	4.4		17.4	
Initial Spares													
Total Proc Cost	2.3	0.0	0.0	0.0	0.0	1.9	2.3	2.3	4.2	4.4		17.4	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION: The Floodlight set consists of four halogen bulbs installed on top of a forty foot telescopic mast which is mounted on top of a two-wheel pneumatic tired High Mobility Trailer. The Floodlight set includes tired four outdoor remote ballasts, a splash panel, outriggers/leveling jacks, power control panel, electrical receptacle for external power, and a battery operated beacon light. A 5 KW Tactical Quiet Generator (TQG) will provide the electrical power. The floodlight set will also have provisions for accepting electrical power from an external source, such as a separate mobile power unit or a nearby commercial power source. This program is used to provide lighting support for the Military Police, Aviation Maintenance Support Units, and major engineering projects.

JUSTIFICATION: FY99 funds will replace an overaged inventory of floodlights that was last procured in the 1960's. The proposed funding profile represented in FY 99 through FY 03 is critical for the Army's Force Package 1 floodlight requirements.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment		P-1 Line Item Nomenclature: FLOODLIGHT SET, ELEC, TRL MTD, 4 LIGHTS (M72100)		Weapon System Type:		Date: February 1998		
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99		
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
HARDWARE	A							550	106	5
HIGH MOBILITY TRAILER *	A							1226	106	12
ENGINEERING								128		
ECO's								40		
TOTAL								1944		
* HIGH MOBILITY TRAILER WILL BE PURCHASED FROM TACOM.										
Quantities are current and may not match P1/P40										

Exhibit P-5a, Budget Procurement History and Planning

**Weapon System Type:**

**P-1 Line Item Nomenclature:**

FLOODLIGHT SET, ELEC, TRL MTD, 4 LIGHTS (M72100)

HARDWARE					
FY 99					
	Federal Prison Industries	SS-EP	CECOM	May-00	106
				Sep-00	5

FY 99	Federal Prison Industries Memphis	SS-FP	CECOM	May-99	Sep-00	106	5	YES
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FY 99	Federal Prison Industries	SS-FP	CECOM	May-99	Sep-00	5	YES
						106	

FY 99	Federal Prison Industries	SS-FP	CECOM	May-99	Sep-00	5	YES
						106	

FY 99	Federal Prison Industries	SS-FP	CECOM	May-99	Sep-00	5	YES
						106	

FY 99	Federal Prison Industries	SS-FP	CECOM	May-99	Sep-00	5	YES
						106	

FY 99	Federal Prison Industries	SS-FP	CECOM	May-99	Sep-00	5	YES
						106	

FY 99	Federal Prison Industries	SS-FP	CECOM	May-99	Sep-00	5	YES
						106	

FY 99	Federal Prison Industries	SS-FP	CECOM	May-99	Sep-00	5	YES
						106	

FY 99	Federal Prison Industries	SS-FP	CECOM	May-99	Sep-00	5	YES
						106	

[illegible]







Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 3 / Other Support Equipment												SOLDIER ENHANCEMENT (MA6800)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	22.2	0.0	0.0	0.0	1.7	4.8	4.2	4.7	3.8	3.8	0.0	45.2	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	22.2	0.0	0.0	0.0	1.7	4.8	4.2	4.7	3.8	3.8	0.0	45.2	
Initial Spares													
Total Proc Cost	22.2	0.0	0.0	0.0	1.7	4.8	4.2	4.7	3.8	3.8	0.0	45.2	
Flyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:** The Soldier Enhancement Program procures soldier items to ensure our combat soldiers maintain and improve their lethality, survivability, mobility, command and control, and sustainment.

**JUSTIFICATION:** FY99 funds will procure the XM37 Mid-Sized Riot Control Disperser to satisfy a Military Police School ORD for a handheld, medium capacity crowd control disperser. The XM37 is comparable in size to an industrial fire extinguisher with a trigger and muzzle to selectively direct riot agent in situations requiring crowd control measures. XM37 provides a more portable alternative to the heavy M33 Backpack Mounter Disperser and a more efficient logistical trail to refill/re-pressurize.

FY99 funds procure the XM25 Stabilized Binoculars developed as a result of an Operational Requirements Document (ORD) issued by the Armor Center at Fort Knox for a surveillance and battle damage assessment device. The XM25 is a high powered hand held binocular which uses a gyro stabilizer to compensate for the resolution degrading effects of using a hand held higher power optic and/or in certain moving vehicular scenarios. The XM25 has twice the magnification of the Army's standard M22 binoculars, allowing the soldier to identify targets at increased ranges found on the modern battlefield. In addition to providing the resolution necessary to accomplish this, the stabilization provides a secondary effect of allowing the binoculars to be used in certain moving scenarios (i.e., helicopters) where standard binoculars are virtually useless. The XM25 also incorporates a pre-planned product improvement to night vision capability.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment			P-1 Line Item Nomenclature: SOLDIER ENHANCEMENT (MAG800)			Weapon System Type:			Date: February 1998		
ID	CD	OPA Cost Elements	FY 96			FY 97			FY 98			FY 99		
			TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
		Hardware - Stabilized Binoculars							1316	283	4650	3652	785	5
		Support												
		Engineering Support in Production (ESIP)							279			35		
		Testing							25			225		
		Initial Contractor Logistics							50					
		Hardware - Mid-Size Riot Control Disperser <sup>1</sup>										748	2199	
		Refill/Re-pressurization Kit 2										26	856	
		Support												
		Engineering Support in Production (ESIP)										71		
		Testing										75		
		1 Unit Cost is Less Than Thousand each												
		2 Unit Cost is Less Than Thousand each												
		TOTAL							1670			4832		

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No:		Weapon System Type:		P-1 Line Item Nomenclature:						
OTHER PROCUREMENT / 3 / Other Support Equipment				SOLDIER ENHANCEMENT (MA6800)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Hardware - Stabilized Binoculars										
FY98	Fraser-Volpe, Warminster, PA	Op/FFP	ACALA, Rock Island, IL	May-98	Dec-98	283	5	Yes	No	
FY99	Fraser-Volpe, Warminster, PA	Op/FFP	ACALA, Rock Island, IL	Dec-98	May-99	785	5	Yes	No	
Hardware - Mid Size Riot Control Dispenser - FY99*	TBS	Op/FFP	CBD Command, APG, MD	Oct-98	Mar-99	2199		Yes	No	
Refill/Re-pressurization Kit - FY99*	TBS	Op/FFP	CBD Command, APG, MD	Oct-98	Mar-99	856		Yes	No	
*Unit cost less than 1 thousand										
REMARKS:										



Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 3 / Other Support Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												LAND WARRIOR (M80500)
Code:												Other Related Program Elements:
604713												B
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty					213	1451	1935	2553	2689	3343	12184	
Gross Cost	0.0	0.0	0.0	0.0	51.4	91.5	100.5	119.2	111.7	137.0	611.2	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	51.4	91.5	100.5	119.2	111.7	137.0	611.2	
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	51.4	91.5	100.5	119.2	111.7	137.0	611.2	
Flyaway U/C												
Wpn Sys Proc U/C												

Land Warrior (LW) is an integrated fighting system for dismounted combat soldiers. The LW program will enhance the soldier's battlefield capabilities through the development and integration of various Army System/components and technologies into a cohesive, timely, and combat effective system. Components include: modular weapon system with thermal weapon sight, infrared aiming light, laser rangefinder, digital compass, video camera, and close combat optic; integrated headgear with helmet mounted display and image intensifier; enhancements to protective clothing and individual equipment; and an integrated individual soldier computer/radio. LW will bring the dismounted soldier into the digital battlefield.

JUSTIFICATION: FY99 funding will enhance the capabilities of the individual soldier in the changing or urban-like battlefield that the soldier is likely to experience in the near future. LW will bring the dismounted soldier into the digital battlefield and support the Force XXI strategy to field an integrated soldier system by the year 2000. The FY99 funding will begin procurement of the Land Warrior system. The dismounted forces will share common digital situational data with other Army components of the battlefield and will be linked to other weapons platforms such as tanks and artillery.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment			P-1 Line Item Nomenclature: LAND WARRIOR (M80500)			Weapon System Type:		Date: February 1998			
OPA Cost Elements	ID	CD	FY 96			FY 97			FY 98			FY 99		
			TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
Land Warrior System Non-recurring production costs* Hardware Engineering changes System Engineering/Program Management Production Engr Spt - Contractor PM Support First Article Test  <b>TOTAL</b>	B											20000 18116 1600 3609 2583 3825 1647  51380	213	85
* Molds, tooling, and all items for production line setup.														







Exhibit P-40, Budget Item Justification Sheet													Date:	September 1997
Appropriation / Budget Activity/Serial No:													P-1 Item Nomenclature:	
OTHER PROCUREMENT / 3 / Other Support Equipment													FORCE PROVIDER (M80200)	
Program Elements for Code B Items:													Other Related Program Elements:	
Code:														
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog		
Proc Qty		2	2	4	2	4	4	4	3	3		28		
Gross Cost	0.0	10.7	11.9	25.0	11.6	25.0	18.9	20.8	21.5	22.9	0.0	168.2		
Less PY Adv Proc														
Plus CY Adv Proc														
Net Proc (P-1)	0.0	10.7	11.9	25.0	11.6	25.0	18.9	20.8	21.5	22.9	0.0	168.2		
Initial Spares														
Total Proc Cost	0.0	10.7	11.9	25.0	11.6	25.0	18.9	20.8	21.5	22.9	0.0	168.2		
Flyaway U/C														
Wpn Sys Proc U/C														

DESCRIPTION: Force Provider is the Army's premier base life support system for our Force XXI power projection army. A fully engineered system, this deployable "tent city," provides high quality climate-controlled billeting, dining, shower, latrine, laundry, and morale welfare and recreation facilities and equipment in an air transportable, strategically deployable module capable of supporting 550 soldiers. Missions for Force Provider include rest and refit for combat weary soldiers, intermediate staging base operations, theater reception/redeployments, humanitarian aid and disaster relief and other military operations such as peacekeeping/enforcement missions worldwide in theaters with immature infrastructure. With Force Provider, combat units will experience higher rates of recovery from the stress of combat and, or an increase in operational readiness as they focus all resources at execution of military operations. Force Provider provides a safe, sanitary, high quality of life environment not available from any other Army system. Force Provider is much more than an assembly program. Extensive and comprehensive systems engineering and integrated logistics support is accomplished to assure over 40 major items and several hundred secondary items are integrated into a completely deployable, largely self-sustaining package. In particular, engineering and integration of Force Provider's power generation and distribution; water and fuel storage and distribution; and wastewater storage with Force Provider's subsystems provide effective, efficient and affordable optimization of the total system which meets all critical user requirements. Fully containerized for rapid deployment, Force Provider is transportable by rail, sea, roadway, and C-130, C-141, C-17 or C-5A aircraft. With the addition of Cold Weather Kits (CWK), the module is deployable in temperatures of -50 degrees Fahrenheit.

JUSTIFICATION: FY98 and FY99 funding is required to procure two and four Force Provider modules in FY98 and FY99, respectively. Force Provider is a demonstrated "force multiplier"--returning soldiers to duty more rapidly, rested, with higher morale and combat ready. Desert Shield/Storm underscored the need for Force Provider and was the genesis for its development through an Army Chief of Staff initiative. One module deployed to Guantanamo Bay, Cuba, between August 1994 and February 1996 in a humanitarian relief support mission and six Interim Support Package (ISP) modules deployed to provide base camps to Bosnia/Herzegovina in Operation Joint Endeavor. Six ISP's are currently in Army Preposition Stock-3 and loaded aboard the USNS Gordon. The ISP's have proved that the concept is sound, the system works, is supportable and required by our Force XXI army.

\* FY02 and 03 expense is required to upgrade twelve (12) each ISP modules to near Force Provider production configuration. No quantity in FY03 is shown because no new modules will be procured in that FY. ISP modules were assembled from existing DOD inventory to provide interim capability and are a non-standard configuration, but provide near equivalent capability to the Force Provider type classified production configuration.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment				P-1 Line Item Nomenclature: FORCE PROVIDER (M80200)				Weapon System Type:		Date: September 1997	
OPA Cost Elements			FY 96		FY 97		FY 98		FY 99					
ID	CD		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
A		Hardware (Module w/Generators)	9419	2	4709500	18300	4	4575046				14832	3	4943852
		Hardware (Module w/o Generators)							8027	2	4013517	4241	1	4241083
		Cold Weather Kit (CWK) Hardware				1219	1	1218720				1411	1	1411000
		Hardware upgrades				737	1	737000						
		Depot Module Assembly	978	2	489000	763	4	190647	853	2	426658	1803	4	450850
		CWK Assembly				102	1	102348				110	1	110433
		Engineering Support	1060			1797			1359			1355		
		ILS	435			1945			1394			1294		
TOTALS			11,892			24,863			11,633			25,046		

Exhibit P-5a, Budget Procurement History and Planning											
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment			Weapon System Type:		P-1 Line Item Nomenclature: FORCE PROVIDER (M80200)						Date: September 1997
LINE ITEM / FISCAL YEAR	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date	
Hardware											
FY 96 Module w/Generators	Various	Various	SSCOM	Various	Various	2	4709500	YES	NO		
FY 97 Module w/Generators	Various	Various	SSCOM	Various	Various	4	4575046	YES	NO		
FY 97: Cold Weather Kit	Various	Various	SSCOM	Various	Various	1	1218720	YES	NO		
FY 97: Hardware upgrades (Training Module)	Sierra Army Depot	Various	SSCOM	Feb-97	Oct-97	1	737000	YES	NO		
FY 98 Module w/o Generators	Various	Various	SSCOM	Various	Various	2	4013517	YES	NO		
FY 99 Module w/Generators	Various	Various	SSCOM	Various	Various	3	4943852	YES	NO		
FY 99 Module w/o Generators	Various	Various	SSCOM	Various	Various	1	4241083	YES	NO		
FY 99: Cold Weather Kit	Various	Various	SSCOM	Various	Various	1	1411000	YES	NO		
Assembly											
FY 96 Module Assembly	Sierra Army Depot, Herlong, CA	WR	SSCOM	Apr-96	Dec-97	2	489000	YES	NO		
FY 97 Module Assembly	Tobyhanna Army Depot, PA	WR	SSCOM	Nov-96	Sep-98	4	190647	YES	NO		
FY 97: Cold Weather Kit Assembly	Defense Distribution Depot Albany	WR	SSCOM	May-97	Sep-98	1	102348	YES	NO		
FY 98 Module Assembly	DOD Depot/To Be Determined	WR	SSCOM	Oct-97	Sep-99	2	426658	YES	NO		
FY 99 Module Assembly	DOD Depot/To Be Determined	WR	SSCOM	Oct-98	Sep-00	4	450859	YES	NO		
FY 99: Cold Weather Kit Assembly	DOD Depot/To Be Determined	WR	SSCOM	Oct-98	Sep-00	1	110433	YES	NO		
REMARKS: Depot assembly is competed to insure best value and efficiency. Storage of completed modules are at Sierra Army Depot and Army Prepositioned Stock-3. The award of hardware contracts will be at various times during the year and to various contractors. During each of the budget years, SSCOM will award about forty major item contracts. The cited date indicates when the majority of the funds will be obligated.											









Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										REFRIGERATION EQUIPMENT (MA5800)	
OTHER PROCUREMENT / 3 / Other Support Equipment		Other Related Program Elements:											
Program Elements for Code B Items:		Code:											
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	0.0	1.6	0.6	4.3	0.0	1.9	0.9	0.9	1.0	6.4	0.0	17.8	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	1.6	0.6	4.3	0.0	1.9	0.9	0.9	1.0	6.4	0.0	17.8	
Initial Spares													
Total Proc Cost	0.0	1.6	0.6	4.3	0.0	1.9	0.9	0.9	1.0	6.4	0.0	17.8	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION: This budget line represents Army Tactical Refrigeration Equipment. It consists of refrigeration units including the 5,000 and 10,000 BTU electric motor driven (EMD), and diesel engine driven (DED) units and the 8' X 8' x 20' refrigerated container. These units are designed to fit into the 150 cu ft performed refrigerated box, and the 600, 1200, 1800, and 4,000 cu ft prefabricated refrigeration boxes. This equipment is used to store a variety of perishable items including food, drugs, medical supplies, and temperature sensitive equipment such as batteries and photographic film.

JUSTIFICATION: The FY99 funding supports upgrade of the refrigerated container to meet the Army's requirement to support the perishable subsistence platoons and the Army Field Feeding System - Future. New containers will be purchased to replace the overaged (15 - 18 yrs old) containers in the field. These new containers will match up with the new refrigeration units and new 10 KW tactical quiet generators that were fielded in FY 96.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment			P-1 Line Item Nomenclature: REFRIGERATION EQUIPMENT (MAS800)			Weapon System Type:			Date: February 1998		
ID	CD	OPA Cost Elements	FY 96			FY 97			FY 98			FY 99		
			TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
A		Refrigerated Units (M858)	648	113	6									
		Refrigerated Containers (M919)				4072	149	27				1775	64	28
		Government Engineering				73						55		
		Documentation				45						34		
		First Article Test				84						66		
		TOTAL	648			4274						1930		

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment		Weapon System Type:		P-1 Line Item Nomenclature: REFRIGERATION EQUIPMENT (MA5800)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Refrigerated Containers										
FY 96	KECO Inc., FLORENCE, KY	C/FP-Opt	SSCOM	Feb-97	Feb-98	113	6	YES		
FY 97	TBS	C/FP-Opt	SSCOM	Jul-98	Sep-98	149	27	YES		
FY 99	TBS	C/FP-Opt	SSCOM	Feb-99	Feb-00	64	28	YES		
<b>REMARKS:</b> * Award of the FY97 contract was delayed until Sep 97 or later due to the transfer of the procurement function from ATCOM, St. Louis to SSCOM, Natick, MA. The new Contracting Agency has not completed the contracting process nor negotiations.										

FY 98 / 99 BUDGET PRODUCTION SCHEDULE										REFRIGERATION EQUIPMENT (MAS800)										Date: February 1998																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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M	F	R	FY	S	QTY	PROC	ACCEP.	BAL		O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J



Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 3 / Other Support Equipment												ITEMS LESS THAN \$2.0M (CSS-EO) (ML5325)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code: A													
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	250.0	4.2	6.3	3.7	2.0	4.7	6.6	7.3	11.3	13.3	0.0	309.4	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	250.0	4.2	6.3	3.7	2.0	4.7	6.6	7.3	11.3	13.3	0.0	309.4	
Initial Spares													
Total Proc Cost	250.0	4.2	6.3	3.7	2.0	4.7	6.6	7.3	11.3	13.3	0.0	309.4	
Flyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:** These programs cover engineer support equipment which have annual procurements of less than \$2 million. All procurements made with these funds are designated to support vital high priority requirements. The types of items procured on this budget line include assault boats, survey equipment, non-breathable air compressors, hygiene and food sanitation equipment. The systems and equipment procured on this line directly support the combat readiness and quality of life of every soldier in the Army, everyday.

**JUSTIFICATION:** These programs fill critical Army shortages and replace overaged, non-supportable and non-replaceable assets. The type of equipment procured on this budget line is subject to high wash out rates due to its extensive use and low unit price. This frequently makes these assets uneconomically repairable. This equipment affects the operational capability of units in the field for designated missions and training requirements. These assets improve units combat capability.

- Inflatable Boat, 15 Person (M238):** This is a fifteen person, inflatable assault boat. It is required for infiltration/exfiltration missions, river crossings, beach landings, beach reconnaissance, general utility work, bridge and harbor construction and drug enforcement/interdiction missions. The FY98/99 program supports replacement of the existing boat for the Engineer Divers. Current inventories exceed their useful life, are defective and pose a potential safety hazard.
- Maturing Theater Latrine (MTL):** A durable prefabricated toilet system based on commercial portable toilets. The MTL will be collapsible and may be shipped either fully assembled or unassembled. It will enter the theater of operations within thirty days of initial deployment. The FY99 buy will support initial availability to theater of operation during early deployments.

Exhibit P-40C Budget Item Justification Sheet				Date
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature		February 1998
OTHER PROCUREMENT / 3 / Other Support Equipment		ITEMS LESS THAN \$2.0M (CSS-EQ) (ML5325)		
Program Elements for Code B Items		Code	Other Related Program Elements	
		A		
<p>3. Containerized Self Service Laundry (CSSL): The CSSL consists of commercial washing and drying equipment integrated into a standard 20 foot shipping container with a sorting/folding area in a tent. It will allow soldiers to machine wash their own clothing. Existing field laundry equipment required significant manpower and excessive turn around time. The CSSL will directly improve soldier quality of life, both in rear areas and in Operations Other Than War (OOTW) deployments. The initial FY98 buy will provide First Article Test quantities and the initial set of procured items. FY99 will buy out the full requirement.</p> <p>4. Boat, Inflatable, 7 Person (M284): This item is required to support the Army Special Operations Forces (ARSOF) and Engineering Divers perform infiltration/exfiltration missions, river crossings, beach landings, beach reconnaissance, general utility work in or on water and bridge construction as well as drug enforcement/interdiction missions. In addition, the 6th Ranger Training Battalion School also requires this boat to train soldiers. Current inventories are no longer suitable for Engineer Divers and ARSOF mission requirements. The FY99 buy supports Engineer Diver requirements and will provide the user with a safe system to satisfy the mission requirement.</p> <p>5. Outboard Motor, 35 hp (M359): This outboard motor provides propulsion for the 7 and 15 Person Inflatable Assault Boats. The FY98 program will help fill critical Engineer Diver requirements.</p>				

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No. OTHER PROCUREMENT / 3 / Other Support Equipment			P-1 Line Item Nomenclature: ITEMS LESS THAN \$2.0M (CSS-EQ) (ML5325)			Weapon System Type:			Date: February 1998		
OPA			FY 96			FY 97			FY 98			FY 99		
ID	CD	Cost Elements	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
A		Food Sanitation Center (M665)	1794	134	13	400	33	12						
A		Portable Bath Units/12 Head Shower (M824)	430	23	19	643	31	21						
A		Fire Trucks (TDA)	1266	6	211									
A		Truck, Firefighting, Multipurpose (M158)				1480	1	1480						
A		Truck, Ladder M278				460	2	230						
A		Boat, Inflatable, 15 person (M238)				363	33	11	841	76	11	1914	174	11
A		Light Set, Trailer Mounted (M721)				335	22	15						
A		Maturing Theatre Latrine												
A		Containerized Self Service Laundry												
A		Boat, Inflatable, 7 Person (M284)							853	17	50	779	1558	1
A		Outboard Motor, 35hp (M359)										1325	29	46
A		Countmine Mine - Mine Plows							279	46	6	731	91	8
A		Countmine Mine - Rollers	1848											
A		**Leveling Device, Lasher	915											
**Leveling Device, Lasher has been moved to OPA 3 Mod Line.														
TOTAL			6253			3681			1973			4749		



Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT /Other Support Equipment / 53301026												TANK ASSEMBLY FAB COLL POL 50000 G M19000	
Program Elements for Code B Items:												Other Related Program Elements:	
Code:												A	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty	2600		68	76		17	54	107	40	322		3284	
Gross Cost	29.5	1.0	1.8	0.9	0.0	7.4	11.5	12.8	9.6	16.1	0.0	90.6	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	29.5	1.0	1.8	0.9	0.0	7.4	11.5	12.8	9.6	16.1	0.0	90.6	
Initial Spares													
Total Proc Cost	29.5	1.0	1.8	0.9	0.0	7.4	11.5	12.8	9.6	16.1	0.0	90.6	
Flyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:** This line consists of various collapsible fabric tank assemblies of different sizes for petroleum, oils, and lubricants (POL) and Water. The tank assemblies consist of the tank, discharge and filter hoses, control/release valves, and other tank parts. The POL tank assemblies are used for storage of petroleum based fuels by the Army, Air Force, and Marine Corp and are components of the Fuel System Supply Point (FSSP) and the Inland Petroleum Distribution System (IPDS). These programs support the Army's mission to provide bulk petroleum fuel distribution to all Department of Defense (DOD) land based forces in a theatre of operations. The Water tank assemblies are used to store potable water when large capacity quick storage facilities are needed and are components of the Water Storage Distribution Systems. They provide life and mission sustaining water to the front line and remote units in tactical environments. Consolidation of the Army's fabric fuel and water tanks will allow the Program Manager (PM) to more effectively manage contract actions to fulfill Army requirements.

**JUSTIFICATION:** The FY99-03 programs provide various sizes of fabric storage tanks to meet requirements for new activations. The tank programs support mission capability of the Army corps, division, brigade, and battalion levels. It also provides for the cyclic replacement of tanks due to expired service life and shelf life when in storage.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT /Other Support Equipment / 53301026			P-1 Line Item Nomenclature: TANK ASSEMBLY FAB COLL POL 50000 G (m19000)			Weapon System Type:			Date: February 1998		
OPA Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
1. Hardware														
** Tank Assembly FAB POL 50000Gallon	A					859	40	21				370	15	25
Tank Assembly FAB POL 10000Gallon	A											1473	176	8
Tank Assembly FAB POL 20000Gallon	A											908	91	10
Tank Assembly Water 50000Gallon	A											1231	108	11
Tank Assembly Water 20000Gallon	A											696	120	6
Tank Assembly Water 3000 Gallon	A											1751	649	3
Engineering Support														
In-House														
Contractor												444		
Engineering Change Orders												148		
Testing												222		
												150		
**FY96 & FY97 funds appropriated on Items Less Than \$2.0M POL.														
TOTAL						859						7393		

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No:		Weapon System Type:		P-1 Line Item Nomenclature:						
OTHER PROCUREMENT / Other Support Equipment / 53301026				TANK ASSEMBLY FAB COLL POL 50000 G (m19000)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revis Avail	RFP Issue Date
<b>1. Hardware</b>										
FY97 Tank POL 50000 Gallon	TBS	C/FP REQ 1(2)	TACOM	Mar-98	Mar-99	40	21	YES	N/A	
FY99 Tank POL 50000 Gallon	TBS	C/FP REQ3(2)	TACOM	Mar-99	Mar-00	15	25	YES	N/A	
Tank POL 10000 Gallon	TBS	C/FP REQ5(1)	TACOM	Mar-99	Mar-00	176	8	YES	N/A	
Tank POL 20000 Gallon	TBS	C/FP REQ5(1)	TACOM	Mar-99	Mar-00	91	10	YES	N/A	
Tank Water 50000 Gallon	TBS	C/FP REQ5(1)	TACOM	Mar-99	Mar-00	108	11	YES	N/A	
Tank Water 20000 Gallon	TBS	C/FP REQ5(1)	TACOM	Mar-99	Mar-00	120	6	YES	N/A	
Tank Water 3000 Gallon	TBS	C/FP REQ5(1)	TACOM	Mar-99	Mar-00	649	3	YES	N/A	
REMARKS:										





Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 3 / Other Support Equipment												PUMP ASSY, REGULATED, 350 GPM (M61200)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code: A													
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty						10	28	20	26	395		479	
Gross Cost	0.0	0.0	0.0	0.0	0.0	0.4	0.9	2.4	0.9	13.8	0.0	18.5	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	0.0	0.0	0.0	0.0	0.4	0.9	2.4	0.9	13.8	0.0	18.5	
Initial Spares													
Total Proc Cost	0.0	0.0	0.0	0.0	0.0	0.4	0.9	2.4	0.9	13.8	0.0	18.5	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION: The 350 Gallon-Per-Minute (GPM) Pump Assembly, Diesel Engine Driven (DED), is used with the Hose Line Out Fit (HLOF). The HLOF is the primary tactical means of distributing, and issuing bulk petroleum to all U.S. land based forces under tactical conditions. It is used at corps, division, brigade, regiment/group, and battalion levels. The 350 GPM Pump moves the fuel from the source of supply to the dispensing equipment.

JUSTIFICATION: FY99 funds will provide 350 GPM pumps to meet requirements for two pipeline terminal operating companies and 27 petroleum supply companies being activated in the Active, Reserve and National Guard. With the 350 GPM pump as part of the Fuel System Supply Point (FSSP) both air and ground combat operations can be supported under the two major regional conflicts scenario.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment				P-1 Line Item Nomenclature: PUMP ASSY, REGULATED, 350 GPM (M61200)				Weapon System Type:		Date: February 1998	
OPA			FY 96		FY 97		FY 98		FY 99					
Cost Elements			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. Hardware												313	10	31
2. Engineering												11		
In-House												7		
Contractor												27		
3. Engineering Change Orders														
TOTAL												358		

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment		Weapon System Type:			P-1 Line Item Nomenclature: PUMP ASSY, REGULATED, 350 GPM (M61200)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
1. Hardware FY99	Engineered Air Systems, St. Louis	C/FP REQ 2	TACOM	Jan-99	May-99	10	31	YES	N/A	
<b>REMARKS:</b> This item previously appropriated under Items Less Than \$2M POL										





Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 3 / Other Support Equipment												INLAND PETROLEUM DISTRIBUTION SYSTEM (MA5120)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code:												A	
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog		
Proc Qty													
Gross Cost	270.9	3.2	3.9	3.1	8.3	8.3	8.2	2.3	2.3	0.0	311.5		
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	270.9	3.2	3.9	3.1	8.3	8.3	8.2	2.3	2.3	0.0	311.5		
Initial Spares													
Total Proc Cost	270.9	3.2	3.9	3.1	8.3	8.3	8.2	2.3	2.3	0.0	311.5		
Flyaway U/C													
Wpn Sys Proc U/C													
<p>DESCRIPTION: The Inland Petroleum Distribution (IPDS) consists of the following major components: Tactical Petroleum Pipeline System (6 inch aluminum pipe and quick lock couplings with a through-put capability of 720,00 gallons per day), configured in five mile sets; Tactical Petroleum Terminals (TPT) (fuel storage systems with a capacity of 3.9 million gallons each), configured into three Fuel Units (FU) (Capacity of 1.3 million gallons each) that can be operated independently or together; 800 gallon per minute mainline pump stations (2 pumps per station); Pipeline Connection Assembly (PLCA) to connect pipelines to TPTs and provide pressure protection for components; and associated ancillary equipment, i.e., critical gap crossing, pipeline suspension bridges, etc. The IPDS was designed to be compatible with the Navy's Offshore Petroleum Discharge Systems (OPDS). IPDS is entirely operational project stock.</p> <p>JUSTIFICATION: The planned FY99 procurement is for Bulk Fuel Tank Assemblies (BFTA's). The BFTA's are being procured based on the shelf life and corresponding wash out of the existing tanks. BFTA's are the most likely components to be damaged during exercises such as Joint Logistics Over The Shore (JLOTS) or deployment. The BFTA's are a major components of the TPT. The BFTA is designed to store petroleum based fuel and is used primarily when large capacity quick storage facilities are needed. Army has the mission to distribute bulk petroleum to all U.S. land-based forces in a theater of operations. IPDS includes validated requirements from Commander in Chief Central Command (CINCCENT) and Commander in Chief Pacific Command (CINCPAC) to support their respective Operational Plans (OPLANS) and would support two near simultaneous Major Regional Conflicts Scenario. IPDS equipment could also be used to support contingencies worldwide. Since pipeline is the most efficient, least manpower intensive method for movement of large</p>													

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment				P-1 Line Item Nomenclature: INLAND PETROLEUM DISTRIBUTION SYSTEM				Weapon System Type:		Date: February 1998			
OPA			FY 96				FY				FY 98				FY 99	
Cost Elements			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost		
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000		
1. Hardware																
Critical Gap Crossings						150	10	15								
Floodlight Sets			248	28	9											
Pipeline Support Equipment																
Bulk Fuel Tank assembly			3127	88	36	888	25	36	785	22	36	312	1	312		
Fuel Unit -GFE						898						178	5	36		
Pipeline Set 5 Mile-GFE						1100	2	550				6261				
Fuel Injectors			248	20	12							1024	2	512		
2. Engineering																
In-House			194			26			147			150				
Contractor									20			167				
3. Engineering Change Orders									61			250				
4. Claim			74													
GFE - Government Furnished Equipment																
TOTAL			3891			3062			1013			8342				

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998		
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment				Weapon System Type:				P-1 Line Item Nomenclature:					
				PIPELINE SUPPORT EQUIPMENT									
WBS Cost Elements:				Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revis Avail	RFP Issue Date	
Fiscal Years													
1. Hardware													
FY96													
Bulk Fuel Tank Assembly				Reliance Aeroproducts	C/FP-REQ 5(2)	TACOM	Apr-96	Aug-97	88	36	YES	N/A	
Fuel Injectors				Hammond Tech, Huston, TX.	C/FP-REQ 3(1)	TACOM	Aug-96	Mar-97	20	12	YES	N/A	
Floodlight Sets				Power Manufacturing	C/FP-REQ 5(1)	TACOM	Feb-97	Aug-97	28	9	NO	N/A	
FY97													
Bulk Fuel Tank Assembly				Reliance Aeroproducts	C/FP-REQ 5(3)	TACOM	Jun-97	Feb-98	25	36	YES	N/A	
Critical Gap Crossings				Industrial Operations Command	MIPR	TACOM	Mar-97	Jun-97	10	15	YES	N/A	
FY98													
Bulk Fuel Assembly				Reliance Aeroproducts	C/FP-REQ 5(4)	TACOM	Mar-98	Jul-98	22	36	YES	N/A	
FY99													
Pipeline Support Equipment				TBS	C/FP-REQ 5	TACOM	Mar-99	Aug-00	1	312	NO	Jun 98	
Bulk Fuel Tank Assembly				Reliance Aeroproducts	C/FP-REQ 5(5)	TACOM	Dec-98	Jul-99	5	36	YES	N/A	
REMARK													

Exhibit P-40, Budget Item Justification Sheet												
Appropriation / Budget Activity/Serial No:										Date: February 1998		
OTHER PROCUREMENT / 3 / Other Support Equipment										P-1 Item Nomenclature: FORWARD AREA REFUELING SYS ADV AVIATION (R21800)		
Program Elements for Code B Items:										Other Related Program Elements:		
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complet	Total Prog
Proc Qty	45				18	8	8	8	12	11		102
Gross Cost	9.0	0.0	0.0	0.0	0.0	5.3	2.3	2.3	3.7	3.7	0.0	26.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	9.0	0.0	0.0	0.0	0.0	5.3	2.3	2.3	3.7	3.7	0.0	26.3
Initial Spares												
Total Proc Cost	9.0	0.0	0.0	0.0	0.0	5.3	2.3	2.3	3.7	3.7	0.0	26.3
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Advanced Aviation Forward Area Refueling System (AAFARS) is a lightweight modular refueling system capable of refueling four aircraft simultaneously at a rate of 55 Gallon-Per-Minute (GPM) per nozzle. The system consists of a fuel pump, filter separator, four 500 gallon drums, nozzles, hoses, and fittings. The system is designed to be set up and operated by a four-person crew near the front battle lines. It replaces the Forward Area Refueling Equipment (FARE) in aviation/aviation support units on a two for three basis. It provides an eight-point refueling capability within current authorized strengths. It can, in an emergency, be used to refuel ground vehicles and equipment.

JUSTIFICATION: FY99 program funds for 35% of early deployment requirements. This procurement and fielding are required to ensure capability to refuel aircraft. Use of AAFARS will minimize refueling turn around time and maximize flying time over the target area. With it, aviation, aviation support units and other petroleum, oils and lubricants (POL) supply units, with a retail mission to support aircraft, can minimize refueling time to maximize mission time during combat operations.

Exhibit P-5. Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment			P-1 Line Item Nomenclature: FORWARD AREA REFUELING SYS ADV AVIATION (R21800)			Weapon System Type:			Date: February 1998		
ID	CD	OPA Cost Elements	FY 96			FY			FY 98			FY 99		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
		1. Hardware										4892	18	272
		2. Engineering										90		
		In-House										107		
		Contractor										55		
		3. Testing (First Article Test)										25		
		4. Documentation										160		
		5. Engineering Change Orders												
		<b>TOTAL</b>										<b>5329</b>		

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998	
Appropriation / Budget Activity/Serial No:		Weapon System Type:			P-1 Line Item Nomenclature:							
OTHER PROCUREMENT / 3 / Other Support Equipment					FORWARD AREA REFUELING SYS ADV AVIATION (R21800)							
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
1. Hardware  FY99		Lear Astronics Corp., Ontario, CA.		C/FP REQ (5)2	TACOM	Mar-99	May-00	18	272	Yes		
<b>REMARKS:</b> Original contract let in FY 93. FY 99 is option to that contract.												





Exhibit P-40, Budget Item Justification Sheet											Date:	February 1998
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:									ITEMS LESS THAN \$2.0M (POL) (ML5330)	
OTHER PROCUREMENT / 3 / Other Support Equipment												
Program Elements for Code B Items:		Other Related Program Elements:										
		Code:		A								
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty												
Gross Cost	227.7	9.2	3.2	6.5	7.1	3.7	3.8	4.7	4.4	0.0	275.0	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	227.7	9.2	3.2	6.5	7.1	3.7	3.8	4.7	4.4	0.0	275.0	
Initial Spares												
Total Proc Cost	227.7	9.2	3.2	6.5	7.1	3.7	3.8	4.7	4.4	0.0	275.0	
Flyaway U/C												
Wpn Sys Proc U/C												

**DESCRIPTION:** Programs include a wide and diverse variety of Petroleum, Oil, and Lubricants (POL) equipment which have annual procurement of less than \$2 million. These programs support the Army's mission to provide bulk petroleum fuel distribution to all Department of Defense (DOD) land based forces in a theater of operations.

**JUSTIFICATION:** FY99 funds are required to fill existing shortages, replace overage and uneconomically repairable assets, and provide state-of-the-art equipment. This equipment is low unit cost, high usage assets resulting in high washouts and losses. New technology improves combat capability, reducing personnel requirements. The FY99 programs are required to offset shortfalls and scheduled washouts of equipment, and to finance procurement of equipment required for Total Army Analyses (TAA-03) activation of two pipeline terminal operating companies and 27 POL supply companies. Programmed activation dates 1998 thru 2003.

a. M603, Fuel System Supply Point is the Army's primary means of distributing and issuing bulk petroleum to combat forces under tactical conditions. The system consists of: 2 - 350 Gallons Per Minute (GPM) Pumps; 2 - 350 GPM Filter Separators; Hoses, Fitting, wyes and tees, and 6 ea. fabric petroleum tanks. FY99 procurement is required for new unit activations.

b. M908 Hose Line Outfit (HLOF) is a collection of hardware items to include hoses, couplings, clamps, slings and valves. It makes up a light compact fuel transportation system which can be installed or repositioned rapidly. It provides a capability for the rapid placement of a temporary bulk fuel transportation system to give adequate petroleum logistical support to tactical forces. It is required by Quartermaster (QM) Petroleum Supply Companies and QM Pipeline Terminal Operating Companies to pass fuel forward from corps area to division area, and from division areas forward. FY99 procurement is required for new unit activations.

Exhibit P-40C Budget Item Justification Sheet			Date
Appropriation / Budget Activity/Serial No.	P-1 Item Nomenclature		February 1998
OTHER PROCUREMENT / 3 / Other Support Equipment			ITEMS LESS THAN \$2.0M (POL) (ML5330)
Program Elements for Code B Items	Code	Other Related Program Elements	
	A		
<p>c. M639, 350 GPM Pump, 350 GPM Pump unregulated, is a component of the Fuel System Supply Point and the Inland Petroleum Distribution System. It supports the Army's primary means of distributing and issuing petroleum to combat forces under tactical conditions. It is used at corps, division, brigade, regiment/group, and battalion levels. The 350 GPM Pump moves the fuel from the source of supply to the dispensing equipment. FY99 procurement is required for new unit activations.</p> <p>d. M370 Test Kit Petroleum, Aviation Fuel consist of testing equipment used by aviation companies, pipeline support companies, and petroleum supply companies, to test the quality of aviation fuel used in forward areas. FY99 procurement is required for new activations.</p>			

Exhibit P-5. Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment				P-1 Line Item Nomenclature: ITEMS LESS THAN \$2.0M (POL) (ML5330)				Weapon System Type:		Date: February 1998	
OPA Cost Elements			FY 96		FY 97		FY 98		FY 99					
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. Hardware														
Fuel System Supply Point M603	A								1269	52	24	1303	45	29
Hoseline Outfit M908	A		788	23	34	974	31	32	1748	20	93	1512	15	101
Pumping Assembly 350 GPM M612	A								302	27	12	1108	65	17
Testing Kit Petroleum: Aviation Fuel	A								212	58	4	190	42	5
Tank Assembly 20,000 Gallon Petroleum	A					312	34	9	948	112	9			
Tank Assembly 10,000 Gallon Petroleum	A		227	47	5	1998	98	12	910					
**Tank Assembly Petroleum 50,000	A		1850			385	80	5	275	42	7			
Tank Unit Liquid Dispensing Trailer	A		641	128	5									
Mounting														
Testing Kit Petroleum: Ground Fuel	A								336	50	7			
Tank Petroleum 3,000 Gallon	A								210	70	3			
Lube & Service Unit	A		620	22	28									
Filter-Separator 350 GPM	A		284	36	8	522	110	5				279		
Pumping Assembly 50 GPM	A		612	153	4	1135	285	4				93		
Supplemental Fuel Tank	A					2000	238	8				140		
Engineering Support												32		
In-House									367					
Contractor									141					
Engineering Change Orders									212					
Testing									125					
** FY96 & FY97 Funds appear on 50000 gallon Tank Assembly line in the Year Defense Plan (FYDP), but in Items Less Than 2.0 million Oil, and Lubricant (POL).														
TOTAL			3172			6467			7055			4657		

\*\* FY96 & FY97 Funds appear on 50000 gallon Tank Assembly line in the Year Defense Plan (FYDP), but in Items Less Than 2.0 million Oil, and Lubricant (POL).

Exhibit P-40, Budget Item Justification Sheet										Date: February 1998		
Appropriation / Budget Activity/Serial No:					P-1 Item Nomenclature:							
OTHER PROCUREMENT / 3 / Other Support Equipment					SMALL MOBILE WATER CHILLER (SMWC) (M15700)							
Program Elements for Code B Items:					Other Related Program Elements:							
					Code:	A						
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	551		400			310	300	258				1819
Gross Cost	4.9	1.0	3.7	0.0	0.0	2.9	2.9	2.4	0.0	0.0	0.0	17.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	4.9	1.0	3.7	0.0	0.0	2.9	2.9	2.4	0.0	0.0	0.0	17.8
Initial Spares												
Total Proc Cost	4.9	1.0	3.7	0.0	0.0	2.9	2.9	2.4	0.0	0.0	0.0	17.8
Flyaway U/C												
Wpn Sys Proc U/C												
<p><b>DESCRIPTION:</b> The Small Water Chiller (SMWC) is a self contained, vapor-cycle, single pass water chiller. The main components consist of a diesel engine, compressor, condensor, heat exchanger (evaporator) and water pump. The components are skid mounted. The SMWC will cool 800 gallons of water from 120 degrees Fahrenheit in a 24 hour operation. All SMWCs will utilize the approved R134a refrigerant.</p> <p><b>JUSTIFICATION:</b> FY99 funds ensure the viability of the Army's water supply capabilities for the future. The SMWC is part of the near term water supply equipment which is designed to provide cool fresh water to U.S. Troops in harsh and arid environments. Programmed requirements are needed to maintain the operational readiness of the U.S. Armed forces and for the replacement of assets lost during contingencies.</p>												

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment			P-1 Line Item Nomenclature: SMALL MOBILE WATER CHILLER (SMMC) (M15700)			Weapon System Type:			Date: February 1998		
OPA Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. Hardware		A	3297	400	8							2647	310	9
2. Engineering			200									95		
In-House												58		
Contractor			24									10		
3. Documentation			168									87		
4. Engineering Change Orders														
TOTAL			3689									2897		

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No:		Weapon System Type:			P-1 Line Item Nomenclature:					
OTHER PROCUREMENT / 3 / Other Support Equipment					SMALL MOBILE WATER CHILLER (SMWC) (M15700)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revs Avail	RFP Issue Date
1. Hardware										
FY96	WARRIOR TECHNOLOGIES XENIA, OH	C/FP- REQ-2(2)	ATCOM	Feb-96	Dec-98	400	8	YES	N/A	
FY99	TBS	C/FP- REQ5	TACOM	Mar-99	Jun-00	310	9	NO	Aug98	
REMARKS:										









Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 3 / Other Support Equipment												ITEMS LESS THAN \$2.0M (WATER EQ) (ML5335)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code: A													
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	56.0	4.0	2.4	3.0	2.8	1.3	1.9	1.8	1.0	0.8	0.0	74.9	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	56.0	4.0	2.4	3.0	2.8	1.3	1.9	1.8	1.0	0.8	0.0	74.9	
Initial Spares													
Total Proc Cost	56.0	4.0	2.4	3.0	2.8	1.3	1.9	1.8	1.0	0.8	0.0	74.9	
Flyaway U/C													
Wpn Sys Proc U/C													
<p><b>DESCRIPTION:</b> The equipment procured with these programs supports the Army mission of providing potable water to soldiers in the field of operations. They provide life and mission sustaining water to the front line and remote units in tactical environments. In addition to consumption, these items support personal hygiene, emergency medical conditions, equipment maintenance, and nuclear, biological and chemical decontamination. They include a wide variety of low unit cost, high usage items such as water tanks, pumps, water purification, storage and distribution systems. Each have an annual procurement of \$2 million or under.</p> <p>a. M114, the Water Quality Analysis Set-Purification, is required to conduct chemical analysis of raw and treated water prior to being approved for issue as potable water. FY99 procurement is required for new unit activations.</p> <p>b. M660 the 3,000 Gallon Semitrailer Mounter Fabric Tank, is used to transport water to troops in isolated areas. FY99 procurement will replace losses and maintain an 85% authorized capability, for new unit activations.</p> <p><b>JUSTIFICATION:</b> Lack of potable water adversely impacts U.S. Forces operations in all environments. FY 99 funds equipment required to fill existing shortages, replace coverage assets, and procure state-of-the-art equipment to support activation of: 22 Water Supply Companies, 5 Water Purification Detachments, 10 Water Purification Teams, 3 Tactical Water Distribution Teams, 3 Direct Support Supply Companies, 4 Heavy Water Augmentation Teams, 1 Light Water Augmentation Team, and 6 Regular Water Augmentation Teams.</p>													

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment				P-1 Line Item Nomenclature: ITEMS LESS THAN \$2.0M (WATER EQ) (ML5335)				Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
Water Quality Analysis Set:													
Purification (M114)													
A		593	57	10	553	54	10	254	60	4	156	31	5
Tank Assembly Water 50,000 Gallon													
A		397	80	5	426	80	5	495	54	9			
Tank Assembly Water 20,000 Gallon													
A		233	116	2	1093	515	2	616	130	5			
Tank Assembly: 3,000 Gallon Water													
A								1125	514	2			
Semitrailer Mounted (M660)													
A													
Pump 125 Gallon Per Minute													
A		240	95	3	317	82	4						
Drum Water 500 Gallon													
A		946	429	2	579	259	2						
Engineering Support													
In-House													
Contractor													
Engineering Change Orders													
TOTAL		2409			2968			2795			1255		

Exhibit P-40, Budget Item Justification Sheet										Date:	February 1998	
Appropriation / Budget Activity/Serial No:										P-1 Item Nomenclature:		
OTHER PROCUREMENT / 3 / Other Support Equipment										COMBAT SUPPORT MEDICAL (MN1000)		
Program Elements for Code B Items:										Other Related Program Elements:		
Code:												
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	372.0	13.9	10.1	15.8	11.4	25.8	33.5	35.0	21.8	23.7	0.0	563.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	372.0	13.9	10.1	15.8	11.4	25.8	33.5	35.0	21.8	23.7	0.0	563.1
Initial Spares												
Total Proc Cost	372.0	13.9	10.1	15.8	11.4	25.8	33.5	35.0	21.8	23.7	0.0	563.1
Flyaway U/C												
Wpn Sys Proc U/C												

**DESCRIPTION:** The Combat Support Medical (MN1000) line modernizes and sustains the Army Medical Department (AMEDD) Table of Organizational Equipment (TOE) force structure with Deployable Medical Systems (DEPMEDS). Program resources fund clinical assemblage components, the acquisition of major medical equipment required to provide hospital combat casualty care, and the physical hospital platforms necessary to provide the mobile modular design of field medicine. The program supports the medical force structure throughout the continuum of the wartime theater of operations as well as peace operations, humanitarian assistance and operations in aid of civil authorities.

Deployable Medical Systems Platform (MX0003) provides the resources for the non-medical components necessary to support the AMEDD field hospital attributes requiring a mobile and sustainable configuration. DEPMEDS current clinical requirements maintain three configurations of hospitals (Combat Support Hospital, Field Hospital, and General Hospital).

Field Medical Equipment (MB1100) funds the acquisition of major medical equipment components necessary to support field clinical care within DEPMEDS combat hospital units and non-hospital units (Battalion Aid Stations, Medical Clearing Stations, Area Medical Laboratories).

**JUSTIFICATION:** FY 99 continues to fund the modernization of the Army Core Force (Force Package 1 and 2) Combat Service Support Mission Area requirements. Force requirements equate to 16 total hospitals that include both direct patient care medical equipment and non-medical associated items of equipment. Resources support thirteen staffed hospitals, prepositioned assets within the Army War Reserve AFLOAT program (two hospital sets), and the Army medical Department Center and School hospital training set. Acquisition of technological and clinically advanced medical equipment ensures medical readiness and maintains a standard of care for combat casualty care comparable to civilian

<b>Exhibit P-40C Budget Item Justification Sheet</b>			Date	February 1998
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature		
OTHER PROCUREMENT / 3 / Other Support Equipment		COMBAT SUPPORT MEDICAL (MN1000)		
Program Elements for Code B Items		Code	Other Related Program Elements	
<p>maintains a standard of care for combat casualty care comparable to civilian medical practices. In addition, resources will ensure system readiness and deployability through the modernization of the physical platform (tents, shelters, environmental control, etc). Proposed acquisition plans partially satisfy equipment deficiencies identified during Operation Desert Storm (patient monitoring, anesthesia, ventilation, water distribution and waste water collection). Justification of specific elements supporting DEPMEDS is displayed on subsequent P-Form exhibits.</p>				

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment				P-1 Line Item Nomenclature: COMBAT SUPPORT MEDICAL (MN1000)				Weapon System Type:		Date: February 1998	
OPA			FY 96		FY 97		FY 98		FY 99					
Cost Elements			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
DEPLOYABLE MEDICAL SYSTEMS (DEPM) FIELD MEDICAL EQUIPMENT			3351			7134			6226			15966		
			6752			8631			5142			9841		
TOTAL			10103			15765			11368			25807		

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998		
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:		DEPLOYABLE MEDICAL SYSTEMS (DEPMEDS) (MX0003)	
OTHER PROCUREMENT / 3 / Other Support Equipment												Code:		Other Related Program Elements:	
Program Elements for Code B Items:															
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog			
Proc Qty															
Gross Cost	232.8	4.4	3.4	7.1	6.2	16.0	16.0	15.8	7.1	8.9	0.0	317.8			
Less PY Adv Proc															
Plus CY Adv Proc															
Net Proc (P-1)	232.8	4.4	3.4	7.1	6.2	16.0	16.0	15.8	7.1	8.9	0.0	317.8			
Initial Spares															
Total Proc Cost	232.8	4.4	3.4	7.1	6.2	16.0	16.0	15.8	7.1	8.9	0.0	317.8			
Flyaway U/C															
Wpn Sys Proc U/C															
<p><b>DESCRIPTION:</b> Deployable Medical Systems Platform provides the funding for major non-medical associated items of equipment to sustain the functional, mobile and modular design of Army combat casualty care. This physical design establishes a system capability for maintainability, modernization and sustainability. Resources support the configuration of Army equipment (tents, shelters, environmental control, water distribution systems, etc.) in support of clinical functional modules for three hospital configurations (Combat Support Hospital, Field Hospital and General Hospital).</p> <p><b>JUSTIFICATION:</b> FY 99 budget request funds the continued acquisition of the imperative Operation Desert Storm deficiency for water distribution and waste water collection and initiates the acquisition and fielding of chemical protection (hardened air conditioners) for DEPMEDS hospitals. Resources will support the five-year modernization program of the physical hospital structures initiated in FY 96 and FY 97. The tent and shelter systems have exceeded life expectancy and must be replaced to ensure system deployability. Funds will cumulatively provide 85% of shelters and 93% of tentage for FP 1 modernization requirements of the mobile, modular physical hospital platform. FY 99 completes the modernization of the Water Distribution and Waste Water Collection System for FP 1.</p>															

Exhibit P-5. Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment				P-1 Line Item Nomenclature: DEPLOYABLE MEDICAL SYSTEMS (DEPMEDS) (MX0003)				Weapon System Type:		Date: February 1998
ID	CD	OPA Cost Elements	FY 96		FY 97		FY 98		FY 99				UnitCost \$000
			TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	TotalCost \$000	Qty Each	
		M339 Air Conditioner 54000 BTU Field Deployable Environmental Control Unit 1/	410			100			2736	201	14	377	14
		Tent, Expandable Modular Personnel (TEMPER) 64' x 20' Medical				1848	71	26	1067	41	26	96	26
		M309 Shelter, Two Sided Expandable	623	11	56	1572	28	56	168	3	56	36	56
		M306 Shelter, One Sided Expandable	458	10	46	1231	25	49	345	7	49	36	49
		Tent, Expandable Modular Personnel (TEMPER) 64' x 20' Surgical				755	24	29	1227	39	31	54	31
		M196 Heater 120000 BTU Army Space Heater, Multi Fuel										110	8
		Tent, Expandable Modular Personnel (TEMPER) 16' x 20'				300	32	9	215	23	9	49	9
		Tent, Expandable Modular Personnel (TEMPER) 16' x 20' Central Materiel				131	14	9	65	7	9	18	9
		Water Distribution and Waste Water Collection System Engineering Spt 2/	400										
		Water Distribution and Waste Water Collection System				1197	6	200	403	2	202	5	202
		M547 Power Unit 495 Upgrade	961	73	14								
		Aerosol generator, Ultra Low Volume	262	32	8								
		M919 Refrigerated Military Van Upgrade	237	43	6								
		TOTAL	3351			7134			6226			15966	
		NOTES: 1/ Technical data and manuals 2/ Technical data package/components											



Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment					Weapon System Type:		Date: February 1999		
P-1 Line Item Nomenclature:					DEPLOYABLE MEDICAL SYSTEMS (DEPMEDS) (MX0003)				
WBS Cost Elements:					RFP Issue Date				
Fiscal Years					Date				
M339 Air Conditioner 54000 BTU Field Deployable Environmental Control Unit					Date				
FY 98					Date				
FY 99					Date				
Tent, Expandable Modular Personnel (TEMPER) 64' x 20' Medical					Date				
FY 97					Date				
FY 98					Date				
FY 99					Date				
M309 Shelter, Two Sided Expandable					Date				
FY 96					Date				
FY 97					Date				
FY 98					Date				
FY 99					Date				
1/ Since components (i.e., structure, cloth, doors, zippered windows, etc.) are purchased from various suppliers and assembled at the depot site, the main supplier of the components (CG Manufacturing in Arizona who supplies the cloth) is listed.					Date				



FY 98 / 99 BUDGET PRODUCTION SCHEDULE										P-1 Item Nomenclature: DEPLOYABLE MEDICAL SYSTEMS (DEPMEDS) (MX0003)										Date: February 1998									
COST ELEMENTS																													
M339 Air Conditioner 54000 BTU																													
Field Deployable Environmental Control Unit																													
Tent, Expandable Modular																													
Personnel (TEMPER) 64' x 20'																													
Medical																													
M309 Shelter, Two Sided Expandable																													



Exhibit P-40, Budget Item Justification Sheet											Date:	February 1998	
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:											
OTHER PROCUREMENT / 3 / Other Support Equipment		FIELD MEDICAL EQUIPMENT (MB1100)											
Program Elements for Code B Items:		Other Related Program Elements:											
	Code:	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty													
Gross Cost		139.2	9.5	6.8	8.6	5.1	9.8	17.5	19.2	14.7	14.8	0.0	245.2
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)		139.2	9.5	6.8	8.6	5.1	9.8	17.5	19.2	14.7	14.8	0.0	245.2
Initial Spares													
Total Proc Cost		139.2	9.5	6.8	8.6	5.1	9.8	17.5	19.2	14.7	14.8	0.0	245.2
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION: Field Medical Equipment (MB1100) provides funding for the modernization and sustainment of the medical equipment component for clinical, diagnostic, treatment and preventive medicine mission requirements for combat casualty care. The equipment supports the operational readiness of the Army Medical Department's field units in support of wartime and peacetime medical missions.

JUSTIFICATION: FY 99 budget request continues the acquisition of direct patient care deficiencies identified in Operation Desert Storm for patient monitoring and anesthesia. Funds will cumulatively modernize requirements for 94% of vital signs monitors and 89% of anesthesia apparatus for FP 1; 100% of vital signs monitors with capnography for Force Package (FP) 1 medical support equipment; 30% of other equipment (e.g., ventilators for operating rooms, triage/emergency treatment rooms and post-operative/Intensive Care Units) for FP 1 medical support equipment. Additionally, FY 99 will initiate the modernization for ventilation and computerized radiology.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment				P-1 Line Item Nomenclature: FIELD MEDICAL EQUIPMENT (MB1100)				Weapon System Type:		Date: February 1998		
OPA Cost Elements			FY 96		FY 97		FY 98		FY 99						
ID	CD		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	
		ECG Monitor, Vital Signs	A	2020	246	8	3537	418	8	2630	310	8	3439	406	8
		Anesthesia Apparatus	A							1950	56	35	1550	44	35
		Ventilators	A										1992	221	9
		Defibrillators		1967	195	10	1720	172	10						
		Computerized Radiology													
		Central Compressors		104	2	52	1256	24	52				2754	2	1377
		ECG Monitor, Vital Signs with Capnography	A	103	8	13	718	54	13	562	42	13	106	8	13
		Environmental Control Units Upgrade					1400								
		Dental Hand-held X-Ray		560	56	10									
		Army Medical Laboratory		700	1	700									
		Eye Team Equipment		550	3	183									
		Defibrillator Aeromed Technical		300											
		Operating Room Tables		351	20	18									
		Blood Plasma Freezer		97	25	4									
		TOTAL		6752			8631			5142			9841		

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No:		Weapon System Type:		P-1 Line Item Nomenclature:						
OTHER PROCUREMENT / 3 / Other Support Equipment				FIELD MEDICAL EQUIPMENT (MB1100)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
ECG Monitor, Vital Signs 1/ FY 96 FY 97 FY 98 FY 99	PROTOCOL SYSTEMS, Oregon PROTOCOL SYSTEMS, Oregon	FFP FFP Option Option	Veterans Administration DPSC, Philadelphia, PA DPSC, Philadelphia, PA DPSC, Philadelphia, PA	Jul-96 Dec-96 Dec-97 Dec-98	Oct-96 Jul-97 Mar-98 Mar-99	246 418 310 406	8 8 8 8			
Computerized Radiology 2/ FY 99	TBS	FFP	DPSC, Philadelphia, PA	Dec-98	Jun-99	2	1377			
<b>REMARKS:</b> 1/ Delivery dependent upon air certification currently being accomplished at Fort Rucker, AL. 2/ Computerized radiology has several components and are purchased from various suppliers and assembled at the depot site.										







Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 3 / Other Support Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												SHOP EQ CONTACT MAINTENANCE TRK MTD (MYP (M61500)
Code:												Other Related Program Elements:
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	4062	52	31	31	28	180	181	84	72	72		4793
Gross Cost	141.0	2.8	1.7	1.7	1.6	7.9	8.1	3.9	3.4	3.4	0.0	175.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	141.0	2.8	1.7	1.7	1.6	7.9	8.1	3.9	3.4	3.4	0.0	175.5
Initial Spares												
Total Proc Cost	141.0	2.8	1.7	1.7	1.6	7.9	8.1	3.9	3.4	3.4	0.0	175.5
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Shop Equipment, Contact Maintenance Vehicle (CMV), Truck Mounted, High Mobility Multi-Purpose Wheeled Vehicle (HMMWV) Heavy Variant (H-HV) (1097) is for general use and will provide improved cross-country mobile maintenance support to maneuver elements. The current CMVs, the gasoline-engine M887 Dodge Truck and Commercial Utility Cargo Vehicle (CUCV) CMV, are unable to traverse the terrain or maintain sufficient cross-country speed to keep up with support equipment while carrying tool and repair parts. The CMV will deploy to the site of disabled equipment to make repairs of all weapons systems and military equipment. The CMV will operate throughout the battlefield to include the Division Support Area (DSA), the Brigade Support Area (BSA), and the Unit Maintenance Collection Point (UMCP). The CMV will operate as far forward as behind the first terrain feature to the rear of the Forward Line of Own Troops (FLOT). Contact Maintenance teams using the CMV will perform repairs to equipment on-site in hours of daylight and darkness.

JUSTIFICATION: The FY99 CMV program will permit the Army to continue to support the highest priority Force Package 1 units in their tactical maintenance mission. This version also adds to the overall ability of the system to transverse over all types of terrain. The Shop Equipment, Contact Maintenance is employed at the intermediate levels of maintenance to provide the capability of performing on-site repairs to disabled equipment. The CMV will replace uneconomically repairable, overaged shops (1500) mounted on the M880 series truck chassis for which spare and repair parts are no longer available. In addition, the 1986 CUCV version CMV will not be supported after 1997. This is in line with the "Purefleeing" concept for Light Maintenance Vehicle. Future procurement of the CMV will be mounted on the H-HMMWV chassis. This will assist in purifying the vehicular fleet and reduce shortage requirements of spare/repair parts and fuel.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment			P-1 Line Item Nomenclature: SHOP EQ CONTACT MAINTENANCE TRK MTD (MYP (M61500)			Weapon System Type:			Date: February 1998		
OPA Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
1. Hardware	A		1519	31	49	1240	31	40	1288	28	46	7717	180	43
2. Engineering Support - In House Support			96			136			248			160		
3. Quality Support (RIA)			22			28			12			20		
4. Engineering Change Proposal (ECP)			38			261			49					
TOTAL			1675			1665			1597			7897		

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No:		Weapon System Type:		P-1 Line Item Nomenclature:						
OTHER PROCUREMENT / 3 / Other Support Equipment				SHOP EQ CONTACT MAINTENANCE TRK MTD (MYP (M61500))						
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
1. Hardware										
FY 96	Rock Island Arsenal, RI, IL	SS/FFP	ACALA	Mar-96	Jul-97	31	49	Yes	No	
FY 97	Rock Island Arsenal, RI, IL	SS/FFP	ACALA	Mar-97	Oct-97	31	40	Yes	No	
FY 98	TBS	C/FP M-5(1)	ACALA	Jun-98	Dec-99	28	46	Yes	No	
FY 99	TBS	C/FP M-5(2)	ACALA	May-99	Mar-00	180	43	Yes	No	
REMARKS:										







Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 3 / Other Support Equipment												WELDING SHOP, TRAILER MTD (M62700)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty	1374					55	150	149	159	77		1964	
Gross Cost	37.5	0.0	0.0	0.0	0.0	3.0	7.6	7.6	8.1	4.0	0.0	67.8	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	37.5	0.0	0.0	0.0	0.0	3.0	7.6	7.6	8.1	4.0	0.0	67.8	
Initial Spares													
Total Proc Cost	37.5	0.0	0.0	0.0	0.0	3.0	7.6	7.6	8.1	4.0	0.0	67.8	
Flyaway U/C													
Wpn Sys Proc U/C													
<p>DESCRIPTION: The welding shop is a trailer-mounted, self-contained unit with provisions for safely accomplishing oxy-propylene braze welding, straight stick electric arc, metal inert gas, air carbon arc-cutting and flux-cored wire welding of ferrous and nonferrous metals. The welding shop provides all purpose welding in support of the Army in the field. The entire shop is mounted on a Heavy-High Mobility trailer. Mobility is accomplished by using a High Mobility Multi-Purpose Wheeled Vehicle (HMMWV) or a vehicle with a higher pulling payload capacity.</p> <p>JUSTIFICATION: FY99 funds support Welding Shops to fill unit requirements throughout the Army in fielding Force Package 1 units. Approximately 300 systems in the field were produced in the late 60's, with a life expectancy of 13 years. These units, as well as approximately 185 fielded in the early 80's, are uneconomically repairable. The new system mission will require that the system operate throughout the battlefield to include the Division Support Area (DSA), the Brigade Support Area (BSA), and the Unit Maintenance Collection Point (UMCP). The FY99 funds support the Army in fielding the Force Package 1 units.</p>													



Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment				P-1 Line Item Nomenclature: WELDING SHOP, TRAILER MTD (M62700)				Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
1. Hardware											2726	55	50
2. Engineering Support - In House Support											141		
3. Publications											100		
4. Quality Support (ACALA)											50		
5. ECP											27		
TOTAL											3044		

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No:		Weapon System Type:		P-1 Line Item Nomenclature:						
OTHER PROCUREMENT / 3 / Other Support Equipment				WELDING SHOP, TRAILER MTD (M62700)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
1. Hardware										
FY 99	TBS	C/FFP	ACALA	Feb-99	Jan-00	55	50	No	Yes	Jun-98
REMARKS:										





Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 3 / Other Support Equipment												P-1 Item Nomenclature:
ITEMS LESS THAN \$2.0M (MAINT EQ) (ML5345)												
Program Elements for Code B Items:												
Code: A												
Other Related Program Elements:												
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	84.2	1.1	3.3	1.3	4.1	4.8	5.4	6.2	3.3	3.7	0.0	117.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	84.2	1.1	3.3	1.3	4.1	4.8	5.4	6.2	3.3	3.7	0.0	117.4
Initial Spares												
Total Proc Cost	84.2	1.1	3.3	1.3	4.1	4.8	5.4	6.2	3.3	3.7	0.0	117.4
Fltaway U/C												
Wpn Sys Proc U/C												

**DESCRIPTION:** Provides for procurement of major shop equipment, shop sets, weapon support items, and explosive ordnance disposal (EOD) equipment. Major shop equipment shop sets have multi-applications for Army maintenance organizations tasked with maintaining and repairing combat and tactical weapon systems. This equipment is for initial issue shortages or to replace overaged and uneconomically repairable assets. EOD equipment is used by EOD personnel to render safe unexploded ordnance and improvised devices throughout the world. This equipment provides the capability to examine, identify, and render safe ordnance effectively and safely.

**JUSTIFICATION:** The FY99 funds are required to procure tool sets and shop equipment to support current and increasing requirements of maintenance and weapons support units. These requirements include interchange, readiness fixing, and replacement of uneconomically repairable/unsupportable assets. The EOD equipment is urgently needed to fill unit requirements throughout the active Army, National Guard, and Army Reserve Units for rendering safe unexploded ordnance and improvised explosive devices. The EOD equipment will increase operational capabilities of EOD units as well as enhance safety of EOD personnel.

- Demolition Equip Set, Expl Elec & Non Elec is used by Engineering, EOD & Special Forces for rendering safe unexploded devices as well as various other mission requiring explosive detonation.
- Torch Outfit, Cutting & Welding Org Maint, Set 5, is required for performance of cutting and welding operations at the organizational level for track and wheel vehicles. This item is needed to satisfy readiness requirements.
- Shop Set, Spare Part Storage, Field Maintenance (FM), Set 1, is required to provide the necessary equipment for the storage and security of authorized repair parts. This item is needed to satisfy readiness requirements.

Exhibit P-40C Budget Item Justification Sheet			Date
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature	February 1998
OTHER PROCUREMENT / 3 / Other Support Equipment		ITEMS LESS THAN \$2.0M (MAINT EO) (ML5345)	
Program Elements for Code B Items	Code	Other Related Program Elements	
<p>d. MX22 Remote Firing Device is used by EOD Companies and Special Forces units to enable the soldier to positively control remote initiation of EOD tools and demolitions without the need to emplace several hundred feet of electrical firing cable or detonating cord. This reduces overall mission time and time the soldier must remain in the vicinity of a hazardous unexploded object. The MX22 is a replacement for the aging M122 Remote Firing Device which was developed in the early 1980's and is no longer procurable.</p> <p>e. Shop Set, Welding Field Maint, PCS, Set 8 provides the necessary components to support equipment to perform arc, oxygen/acetylene, and inert gas welding.</p> <p>f. Shop Equip, Machine Shop, Field Maint, Heavy Suppl provides the necessary components and the basic accessories for common field maintenance machine operations.</p> <p>g. Shop Equipment, Radiator Test and Repair, FM, Composite, Shop Set B, is required to provide the special tools and equipment for the testing and repair of radiators at the organizational level. This item is needed to satisfy Readiness requirements.</p> <p>h. Shop Equip, Machine Shop, Field maint, Basic, Less Power provides the necessary components to perform duties associated with Machine Shop Field Maintenance.</p> <p>i. Tool Set, Light Engineer, Squad provides necessary components for performing basic engineering functions at forward deployed, remote, wilderness areas.</p> <p>j. Shop Equip, Machine Shop Field Maint, Heavy provides necessary components for highly mobile machine shop operation.</p> <p>k. Radiographic Tool Set (commonly called the x-ray tool set) is used by EOD personnel to take x-ray pictures of foreign ordnance items and suspected improvised explosive devices (IEDs). The x-ray film of the internal components of the suspect object allows the soldier to identify hazards and determine EOD procedures to be used.</p> <p>l. Advanced Radiographic System (ARS) is used by explosive ordnance disposal (EOD) soldiers to obtain a radiographic computer image of the internal components of munition fuzes, light cased unexploded ordnance (UXO) items and suspected improvised explosive devices (IEDS). The ARS enhances the capabilities of the present X-Ray tool set and increases operational safety by reducing the exposure to the hazardous item.</p> <p>m. Measuring Tool Set, Machinist's Set 6, is required to provide the necessary components to perform machinist's measuring and resizing of equipment to rebuild engines at the organization, depot level. Item is needed to satisfy Readiness requirements.</p> <p>n. Shop Set, Spare Part, Storage, FM, Set 2, is required to provide the necessary equipment for the storage and security of authorized repair parts. Sets are needed to fill Readiness requirements.</p>			

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment				P-1 Line Item Nomenclature: ITEMS LESS THAN \$2.0M (MAINT EQ) (ML5345)				Weapon System Type:		Date: February 1998	
OPA Cost Elements			FY 96		FY 97		FY 98		FY 99					
ID	CD		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
1. Demolition Equip Set, Expl Elec & Non Elec (EOD)	A	F001										356	178	2
2. Torch Outfit, Cutting & Welding Org Maint Set 5	A	F065	4	4	1	26	85	14	5	1			5	1
3. Shop Set, Spare Part Storage Field Maint, Set 1	A	F079	371	94	4	496	125	4	188	50	4	786	196	4
4. MX22 Remote Firing Device (EOD) G008	A		575	25	23							250	10	25
5. Shop Equip, Canvas Glass Shop, Shelter MTD	A	G311	35	10	4									
6. Shop Set, Welding Field Maint, PCS, Set 8	A	G341										16	1	16
7. Shop Equip, Machine Shop, Field Maint, Heavy Suppl 1	A	G321										97	2	49
8. Shop Equip, Radiator Test & Repair, FM	A	G715	146	18	8				10	1	10	56	6	9
9. Shop Equip, Machine Shop, Field Maint, Basic, Less Power	A	G322										133	2	67
10. Tool Set, Light Engineer, Squad	A	G395										87	50	2
11. Shop Equip, Machine Shop Field Maint, Heavy	A	G320										365	5	73
12. Radiographic Tool Set (EOD)	A	G037				247	31	8	54	6	9	286	35	8
13. Hook & Line Set (EOD)	A	G076	57	30	2	151	94	2						
14. Saw, Power Hawk	A	S101	30	5	6	30	5	6						
15. Advanced Radiographic Sys (ARS) (EOD)	A	A010										1906	141	14
16. Measuring Tool Set Machine Set 6	A	F056							9	15	1	1	1	1

Exhibit P-5, Weapon OPA Cost Analysis				Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment				P-1 Line Item Nomenclature: ITEMS LESS THAN \$2.0M (MAINT EQ) (ML5345)				Weapon System Type:		Date: February 1998	
OPA				FY 96		FY 97		FY 98		FY 99					
Cost Elements				TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	TotalCost \$000	Qty Each	UnitCost \$000	UnitCost \$000
17. Shop Set, Spare Part Storage Field Maint, Set 2	F080	A					67	19	4	361	100	4	410	133	3
18. Dearmer (EOD)	F044	A					6	22							
19. Engine, Lathe	S053	A					100	5	20						
20. Milling Machine	S067	A								230	10	23			
21. Locator, MK26 (EOD)	G335	A					66	3	22						
22. Tool Kit, Supplemental, Field Maintenance (EOD)	G784	A		47	22	2	90	18	5	204	41	5			
23. Camera Set (EOD)	S170	A		37	21	2	32	32	1						
24. Tool Kit, Explosive Non-sparking (EOD)	E789	A		125	100	1									
25. Steam Cleaner		A		8											
26. Shop Equip, Auto		A					6	1	6						
27. Laser Leveling Device		A								3000	60	50			
28. Gas Chillers		A		1880	2	940									
TOTAL				3315			1317			4070			4754		



Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 3 / Other Support Equipment												DIST, BITUM MATERIAL 1500G TRK MTD (R02100)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code: A												OP43, SSN R030, 20T Dump Truck	
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog		
Proc Qty	174		10		20	25	35	35	20		319		
Gross Cost	6.2	0.0	3.3	0.0	4.4	5.6	6.1	6.3	3.7	0.0	35.6		
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	6.2	0.0	3.3	0.0	4.4	5.6	6.1	6.3	3.7	0.0	35.6		
Initial Spares													
Total Proc Cost	6.2	0.0	3.3	0.0	4.4	5.6	6.1	6.3	3.7	0.0	35.6		
Flyaway U/C													
Wpn Sys Proc U/C													
<p>DESCRIPTION: Procures 2800 Gallon Bituminous Distributor and 8 Cubic Yard Concrete Mobile Mixer Engineer Mission Modules (EMMs) beginning in FY97 to support the Combat Engineers. These modules will be mounted on M1075 PLS Trucks and M1076 PLS Trailers. The family of engineering modules will be procured on a basis of two each Bituminous Distributors, three each Concrete Mobile Mixers, and ten each 14 Ton Dump modules which together comprise a battalion set. Each battalion set will also require five each Palletized Load System (PLS) Trucks and five each PLS Trailers. The EMM modules are Non-Developmental Items (NDI) and commercially available. While typically mounted on a dedicated truck chassis in most commercial applications for use with the PLS, the Bituminous and Concrete modules will be skid-mounted in a manner similar to some specialized commercial applications. In a PLS configuration, these modules can be demounted and the PLS truck and trailer used for alternative combat engineer missions, e.g. dump operations.</p> <p>JUSTIFICATION: In FY 99, replacement of these overaged dedicated systems with EMMs and shared PLS platforms will make optimal use of resources and the PLS truck and trailer will also provide significantly improved mobility to combat engineer units. The currently fielded Concrete Mobile Mixer (M919) and Bituminous Distributor (M918) trucks are overage, unreliable and not economically repairable. In addition, the fielded vehicles are dedicated trucks with low operating tempos.</p>													

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment			P-1 Line Item Nomenclature: DIST. BITUM MATERIAL 1500G TRK MTD (R02100)			Weapon System Type:			Date: February 1998		
OPA			FY 96			FY 97			FY 98			FY 99		
Cost Elements			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. Hardware														
Bituminous Distributor Module	B					339	4	85				834	10	83
Concrete Mobile Mixer Module	B											1611	15	107
14 Ton Dump Module	B					197	3	66				1691	50	34
Palletized Load System (PLS) Truck M1075	A					1055	4	264						
PLS Trailer	A					185	4	46						
<b>SUBTOTAL</b>						1776						4136		
2. Engineering Changes						139						41		
3. Testing Government Contractor						544								
						30								
4. Documentation/Data						151								
5. Quality Assurance Support														
6. Special Tools														
7. Fielding Support						123						100		
8. Engineering Support Government Contractor						150						100		
						387								
9. Project Mgmt Support														
Note: P5 displays current affordable quantities and may differ from the P1/P40														
Modules will complete FAT Aug 98 at Aberdeen Proving Ground and will be Type Classified STD Nov 98														
<b>TOTAL</b>						3300						4377		

Exhibit P-5a, Budget Procurement History and Planning										
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment			Weapon System Type:		P-1 Line Item Nomenclature: DIST. BITUM MATERIAL 1500G TRK MTD (R02100)				Date: February 1998	
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Bituminous Distributor Module FY 97 FY 99	Oshkosh Truck Corp Oshkosh, WI	SS/FFP Option	TACOM TACOM	Sep-97 Nov-98	Mar-98	4	85	Yes	N/A	N/A
					Feb-99	10	83	Yes	N/A	N/A
Concrete Mobile Mixer Module FY 99	Oshkosh Truck Corp Oshkosh, WI	Option	TACOM	Nov-98	Feb-99	15	107	Yes	N/A	N/A
14 Ton Dump Modules FY 97 FY 99	Oshkosh Truck Corp Oshkosh, WI	SS/FFP Option	TACOM TACOM	Sep-97 Nov-98	Mar-98	3	66	Yes	N/A	N/A
					Feb-99	50	34	Yes	N/A	N/A
Palletized Load System (PLS) Truck M1075 FY 97	Oshkosh Truck Corp Oshkosh, WI	Option	TACOM	Mar-98	Dec-98	4	264	Yes	N/A	N/A
PLS Trailer FY 97	Oshkosh Truck Corp Oshkosh, WI	Option	TACOM	Sep-97	Dec-98	4	46	Yes	N/A	N/A
<b>REMARKS:</b> Total FY97 Program: Requirements contract with Oshkosh Truck Corp. awarded Sep 97 for all FY97 Engineering Mission Modules (4ea Bituminous Distr, 6 ea Concrete Mobile Mixer, and 20 ea 14 Ton Dump modules). Total FY97-funded acquisitions for 10ea PLS Trucks and 10 ea PLS Trailers will use available options. Only items funded by \$3M R02100 FY97 funds are shown here. Acquisition of the remaining FY97-funded complement of 6 ea Concrete Mobile Mixer and 17 Dump modules and 6ea PLS trucks and 6 ea PLS trailers is covered on P-Form for R030, 20 Ton Dump Truck.										





Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 3 / Other Support Equipment												ROLLER, VIBRATORY, SELF-PROPELLED (CCE) (R03300)	
Program Elements for Code B Items:												Other Related Program Elements:	
0604804A DH01												Code: B	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty	268		138		90		167	51				714	
Gross Cost	6.9	0.2	9.3	0.0	5.9	0.0	10.4	4.9	0.1	0.2	0.0	37.9	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	6.9	0.2	9.3	0.0	5.9	0.0	10.4	4.9	0.1	0.2	0.0	37.9	
Initial Spares													
Total Proc Cost	6.9	0.2	9.3	0.0	5.9	0.0	10.4	4.9	0.1	0.2	0.0	37.9	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION: The Vibratory Self Propelled Roller is a commercial Non-Developmental Item (NDI) with the capability of exchanging smooth drum vibratory compaction to tamping foot compaction functions within a single base self-propelled unit. This will be accomplished by applying bolt-on padfoot segments to the existing smooth drum surface. There will be three types procured. A heavy roller replaces the standard size currently in the inventory. A smaller "light" version replaces selected towed compaction equipment in light engineer units. The smaller "light" version will also be procured for the 18th Airborne Corps. Roller will be capable of all modes of transportation to include airdrop and helicopter transport for airborne/airmobile units.

Code B Data: D604804A, DH01 RDTE; Performance Specification Date Sep 97; DTE/IOTE/OTE/TDP are all N/A as item is non developmental; TC Generic (Alt Standard scheduled for Jul 99; model number to be determined; no test results available as acquisition support by market survey, no testing.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment			P-1 Line Item Nomenclature: ROLLER, VIBRATORY, SELF- PROPELLED (CCE) (R03300)			Weapon System Type:			Date: February 1998		
OPA Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. Hardware			8556	138	62				5720	88	65			
2. Logistics Data Deliverables														
a. Publications			120											
b. Other			45											
3. Testing (Production Qualification Test)														
Government (ATC)			302											
4. Engineering In-House			110						115					
5. Engineer Change Order			138						95					
6. Program Management														
7. Termination Liability			43											
Quantities are current and may not match P1/P40														
TOTAL			9314						5930					

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No:		Weapon System Type:		P-1 Line Item Nomenclature:						
OTHER PROCUREMENT / 3 / Other Support Equipment				ROLLER, VIBRATORY, SELF-PROPELLED (CCE) (R03300)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
1. Hardware FY 96	TBS	C/FP REQ 5(1)	TACOM	Mar-98	May-98	138	62	YES	N/A	Oct-97
FY 98	TBS	C/FP REQ 5(2)	TACOM	Mar-98	Apr-99	88	65	YES	N/A	
<b>REMARKS:</b> FY 95/96 awarded in Sept 96. However, due to protest, stop work order was issued in Oct 1996, and contract subsequently terminated for convenience. Acquisition strategy has changed due to acquisition reform initiatives, and reaward now scheduled for Mar 98.										





Exhibit P-40, Budget Item Justification Sheet													Date:
Appropriation / Budget Activity/Serial No:													February 1998
OTHER PROCUREMENT / 3 / Other Support Equipment													
P-1 Item Nomenclature:													
HYDRAULIC EXCAVATOR (X01500)													
Program Elements for Code B Items:													
Other Related Program Elements:													
Code: B													
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog		
Proc Qty			24	12	26	19	25	29			135		
Gross Cost	0.0	0.0	5.6	2.8	6.4	6.5	8.5	8.8	0.2	0.0	38.8		
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	0.0	5.6	2.8	6.4	6.5	8.5	8.8	0.2	0.0	38.8		
Initial Spares													
Total Proc Cost	0.0	0.0	5.6	2.8	6.4	6.5	8.5	8.8	0.2	0.0	38.8		
Flyaway U/C													
Wpn Sys Proc U/C													
<p>DESCRIPTION: The Hydraulic Excavator (HYEX) is a commercial item of construction equipment. The HYEX is a diesel engine driven, self-propelled, track mounted, hydraulically controlled machine, equipped with a hydraulic quick connect/disconnect coupler for use with a wide variety of attachments. The HYEX will be transported by highway, rail, marine and air in C-17 and C-5 aircraft. There will be three types procured. Type I excavator will be equipped with a variety of attachments, and used for general excavation, digging, dredging, trenching and lifting. Type II excavator will be equipped with a rock drill and a heavy bucket for quarry operations. Type III heavy excavator will be equipped with an impact breaker, rock bucket, and heavy duty bucket also for use in quarry operations.</p> <p>Code B Data: D604804A, DH01 RDTE; Performance Specification Date Oct 97 ; DTE/IOTE/OTE/TDP are all N/A as item is non developmental; TC Generic (Alt Standard scheduled for Jan 98 ; model number to be determined; no test results available as acquisition support by market survey, no testing.)</p> <p>JUSTIFICATION: FY 99 funds procure 26 systems. This system satisfies the Army's requirement to provide Engineer Units with state-of-the-art, multipurpose excavation capabilities to execute construction and quarry missions to support military operations, national goals, and objectives. This is not a new mission for the Engineer Forces. Excavation has always existed. Previously this mission was accomplished with four overaged, obsolete, non-supported systems, all procured in the late 50's and early 60's, and one current system, D8K (T-11 Size) Tractor. The four overaged, unsupportable systems, type classified obsolete in FY 93, were (1) 12.5 ton crawler crane, cable controlled with attachments, (2) ditching machine, (3) pneumatic rock drill, and (4) the 750 cfm air compressor. The goal is to replace all five systems with one commercial, multipurpose excavation system. This will provide the Army's Engineer Units the flexibility to accomplish their excavation and quarry operations in both wartime and peacetime.</p>													

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment				P-1 Line Item Nomenclature: HYDRAULIC EXCAVATOR (X01500)				Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
B					5160	24	215	2580	12	215	6136	26	236
1. Hardware													
2. Logistic Data Deliverables					103								
a. Publication					42								
b. Other													
3. Testing (Production Qualification Test)													
Government (ATC)					140						115		
4. Engineering In-House					78						45		
5. Engineering Change Order					55						106		
6. Program Management													
TOTAL					5578			2759			6402		

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No:			Weapon System Type:		P-1 Line Item Nomenclature:					
OTHER PROCUREMENT / 3 / Other Support Equipment					HYDRAULIC EXCAVATOR (X01500)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revis Avail	RFP Issue Date
1. Hardware FY 97	TBS	C/FP REQ 5(1)	TACOM	Apr-98	Oct-98	24	215	YES	N/A	Dec-97
FY 98	TBS	C/FP REQ 5(2)	TACOM	Apr-98	Jul-99	12	215	YES	N/A	
FY 99	TBS	C/FP REQ 5(3)	TACOM	Jan-99	Aug-99	26	236	YES	N/A	
<b>REMARKS:</b> Variation in unit cost is due to three sizes of HYEXs being procured from a 5 year requirements contract. Unit costs listed above reflect average unit costs for the three different sizes of HYEXs.										





Exhibit P-40, Budget Item Justification Sheet													Date:	February 1998
Appropriation / Budget Activity/Serial No:													P-1 Item Nomenclature:	
OTHER PROCUREMENT / 3 / Other Support Equipment													DEPLOYABLE UNIVERSAL COMBAT EARTH MOVERS (M06100)	
Program Elements for Code B Items:													Other Related Program Elements:	
Code:													A	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog		
Proc Qty			15	21	22	23	22	20	22	16		161		
Gross Cost	0.0	0.0	9.5	7.7	8.7	9.4	9.2	9.7	10.0	7.3	0.0	71.5		
Less PY Adv Proc														
Plus CY Adv Proc														
Net Proc (P-1)	0.0	0.0	9.5	7.7	8.7	9.4	9.2	9.7	10.0	7.3	0.0	71.5		
Initial Spares														
Total Proc Cost	0.0	0.0	9.5	7.7	8.7	9.4	9.2	9.7	10.0	7.3	0.0	71.5		
Flyaway U/C														
Wpn Sys Proc U/C														

DESCRIPTION: The Deployable Universal Combat Earth Mover (DEUCE) is a high-speed mobility earth moving system capable of conducting clearing, leveling, and excavating operations in support of mobility, countermobility, survivability, and sustainment of engineering missions in Light Divisions and Airborne Units. The DEUCE will travel rapidly between job sites, travel across paved airfield and highways without damaging the surfaces, and be capable of low velocity air drop and roll-on/roll-off from C-130 and C-17 aircraft.

JUSTIFICATION: FY 99 funds continue acquisition of Force Package 1 and 2 requirements. The DEUCE will increase war fighting capabilities of light engineer units to support light divisions. The DEUCE also replaces existing overage assets in airborne units (D5 Dozer). Engineers as part of the combined arms team need a lightweight earth moving capability that does not require a prime mover and trailer for operational and tactical movement in the battlefield and is strategically deployable by air.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment			P-1 Line Item Nomenclature: DEPLOYABLE UNIVERSAL COMBAT EARTH MOVERS (M10600)			Weapon System Type:			Date: February 1998		
OPA			FY 96			FY 97			FY 98			FY 99		
Cost Elements			TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
1. Hardware		A	8700	15	580	7497	21	357	8326	23	362	8976	24	374
2. Logistic Data Deliverables - Provisioning			33											
3. Testing (Production Verification Test)														
-Contractor			305											
-Government (ATC)			350											
4.. Armored Kits (CAB)			90			106			177			118		
5. Engineering In-House			44			62			108			118		
6. Engineering Change Orders									67			70		
7. Program Management												106		
TOTAL			9522			7665			8678			9388		



Exhibit P-5a, Budget Procurement History and Planning										Date:
Appropriation / Budget Activity/Serial No:			Weapon System Type:			P-1 Line Item Nomenclature:				Date
OTHER PROCUREMENT / 3 / Other Support Equipment						DEPLOYABLE UNIVERSAL COMBAT EARTH MOVERS (M06105)				February 1998
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
1. Hardware FY 97	CATERPILLAR MINNEAPOLIS, MN	C/FFP OPTION	TACOM	Feb-97	Oct-97	21	357	YES	N/A	
FY 98	CATERPILLAR MINNEAPOLIS, MN	C/FFP OPTION	TACOM	Jan-98	May-98	23	362	YES	N/A	
FY 99	CATERPILLAR MINNEAPOLIS, MN	C/FFP OPTION	TACOM	Jan-99	May-99	24	374	YES	N/A	
<b>REMARKS:</b> 1. FY 97 thru FY 99 are options to contract awarded in July 95. 2. FY 96 unit cost includes non-recurring production tooling costs.										







Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 3 / Other Support Equipment												TRUCK, DUMP, 20T (CCE) (R03000)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code:												A	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty	919			206		66	67	69	95	98		1520	
Gross Cost	41.5	0.0	0.0	43.3	0.0	13.3	13.4	13.7	18.7	19.2	0.0	163.1	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	41.5	0.0	0.0	43.3	0.0	13.3	13.4	13.7	18.7	19.2	0.0	163.1	
Initial Spares													
Total Proc Cost	41.5	0.0	0.0	43.3	0.0	13.3	13.4	13.7	18.7	19.2	0.0	163.1	
Flyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:** The Dump Truck (20Ton, Commercial Construction Equipment), Model M917A1, is a Non-Developmental Item used to load, transport, and dump payloads of sand and gravel aggregates, crushed rock, hot paving mixes, earth, clay, rubble, and large boulders at engineering and construction sites under worldwide climatic conditions in a military environment. It has a heavy duty steel, 18.5 ton, 12 cubic yard truck and 14 cubic yard heaped capacity dump, in a cab controlled double action hydraulic hoist system capable of a 50 degree tilt angle, 8 inch high removable sideboards, easy wind tarpaulin system, and an air actuated tailgate lock. This 20Ton dump truck is transportable by highway, rail, marine, and air modes worldwide. This dump truck with the Material Control System (MCS) has an air actuated four door tailgate controlled by the operator capable of dumping loads through any one or all four gates.

**JUSTIFICATION:** FY99 funds will provide for the Dump Truck, 20T (CCE), which replaces the aging M917 and F5070 dump trucks which are 18-25 years old. These supply vehicles are required to activate newly organized Engineer Heavy Dump Truck Companies. Both the M917 and F5070 dump truck are experiencing below the goal mission capable rates and are difficult and expensive to support due to their age. This new dump truck will significantly improve readiness due its state of the art components. Sustainment costs will be significantly reduced due to design consideration targeted at minimizing the cost to operate.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment			P-1 Line Item Nomenclature: TRUCK, DUMP, 20T (CCE) (R03000)			Weapon System Type:			Date: February 1998		
OPA Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. Vehicle														
Truck, Dump, 20T (CCE)														
-W/O Material Control System														
-W Material Control System														
2. Government														
3. Documentation														
4. Testing (PVT) (ATC)														
5. Engineering Change Proposals														
6. Program Management														
2. Vehicle														
Palletized Loading System Truck Option														
Palletized Loading System Trailer Option														
Concrete Mobile Mixer Module														
14 Ton Dump Module														
2. Engineering Change Proposals														
3. Testing (FAT) (ATC)														
4. Engineering Support Government														
The Concrete Mobile Mixer Module and the the 14 Ton Dump Module will complete First Vehicle Test in Aug 98 at Aberdeen Proving Ground and will be type classified "Standard" Nov 98.														
Quantities shown are most current and may differ from P1/P40														
TOTAL			43263									13305		

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment			Weapon System Type:			P-1 Line Item Nomenclature: TRUCK, DUMP, 20T (CCE) (R03000)				RFP Issue Date
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	
1. Vehicle FY 97 M917A1 W/O MCS M917A1 W MCS	Freightliner, Portland, Oregon Freightliner, Portland, Oregon	Option Option	TACOM TACOM	Oct-97 Oct-97	May-98 May-98	154 59	176 189	Yes Yes	N/A N/A	
FY99 M917A1 W/O MCS M917A1 W MCS	Freightliner, Portland, Oregon Freightliner, Portland, Oregon	Option Option	TACOM TACOM	Dec-99 Dec-99	Jul-99 Jul-99	49 17	182 196	Yes Yes	N/A N/A	
2. Vehicle FY 97 Concrete Mobile Mixer Module	Oshkosh Truck Corp. Oshkosh, WI	Option	TACOM	Sep-97	Mar-98	6	106	Yes	N/A	
FY 97 14 Ton Dump Modules	Oshkosh Truck Corp. Oshkosh, WI	SS/FFP	TACOM	Sep-97	Aug-98	17	28	Yes	N/A	
FY 97 Palletized Loading System Truck (M1075)	Oshkosh Truck Corp. Oshkosh, WI	Option	TACOM	Mar-98	Dec-98	6	264	Yes	N/A	
FY 97 Palletized Loading System Trailer	Oshkosh Truck Corp. Oshkosh, WI	Option	TACOM	Sep-97	Dec-98	6	46	Yes	N/A	
REMARKS: (1) Freightliner Cont DAAE07-96-C-X076 awarded Dec 95 provides 250% option. This is a Sole Source Firm Fixed Price contract with 196 vehicles on contract. FY97/98 award is for 213 vehicles for the Army, 49 vehicles for the National Guard, 16 vehicles for the Army Reserve, and one Foreign Military Sale case (FMS) consisting of 14 vehicles. Current plans provide for using the existing option to acquire the FY99 requirements. (2) Requirements contract with Oshkosh awarded Sep 97 for all FY97 Engineering Mission Modules (4ea Bituminous Distr, 6ea Concrete Mobile Mixer, and 20ea Ton Dump Modules). Total FY97 funded acquisitions for 10ea PLS Trailers / Trucks will use available options. Only items funded by \$3.5M FY97 funds are shown here. Acquisition of the remaining FY97 complement of 4ea Bituminous Distributor, 3ea Dump modules, 4ea PLS trucks, and 4ea PLS trailers is covered on P-FORMS for R021, 20 Ton Dump Truck.										







Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 3 / Other Support Equipment												CRUSHING/SCREENING PLANT, 150 TPH (M07000)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty	2					2	4		3	3		14	
Gross Cost	4.5	0.0	0.0	0.0	0.0	3.8	7.5	0.1	5.9	5.9	0.0	27.7	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	4.5	0.0	0.0	0.0	0.0	3.8	7.5	0.1	5.9	5.9	0.0	27.7	
Initial Spares													
Total Proc Cost	4.5	0.0	0.0	0.0	0.0	3.8	7.5	0.1	5.9	5.9	0.0	27.7	
Flyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:** The Crushing, Screening, and Washing Plant (CSWP) is a reprocurment of a portable, diesel/electric driven system, consisting of a primary jaw crusher, a secondary cone crusher, tertiary cone crusher, wash and screening unit, product conveyors, generators, and other components required to provide a complete and operational rock crushing plant. The plant produces a minimum of 150 tons per hour of product suitable for base stone and concrete aggregate materials to be used in construction and maintenance of roads and airfields.

**JUSTIFICATION:** The FY 99 program year is an option to an existing contract to fill Force Package 1 & 2 requirements. Studies and lessons learned from our Latin American experiences have all indicated that the engineers cannot expect host nation support for aggregate materials to sustain horizontal construction in any but the most developed countries of the world. Force structure changes have resulted in the consolidation of various sizes of crushing units, 75 tons per hour (TPH) and 225 TPH into the 150 TPH requirement.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment			P-1 Line Item Nomenclature: CRUSHING/SCREENING PLANT, 150 TPH (M07000)			Weapon System Type:			Date: February 1998		
ID	CD	OPA Cost Elements	FY 96			FY 97			FY 98			FY 99		
			TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
		1. Hardware										3581	2	1839
		2. Engineering In-House										48		
		3. Engineering Change Orders										66		
		4. Program Management										106		
TOTAL												3801		

Exhibit P-5a, Budget Procurement History and Planning										Date:
Appropriation / Budget Activity/Serial No:		Weapon System Type:			P-1 Line Item Nomenclature:					Date:
OTHER PROCUREMENT / 3 / Other Support Equipment					CRUSHING/SCREENING PLANT, 150 TPH (M07000)					February 1998
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
1. Hardware FY 99	Cedarapids, Inc Cedar Rapids, Iowa	CFP REQ 5(4)	TACOM	Jan-99	Apr-99	2	1839	Yes	N/A	
<b>REMARKS:</b> FY 99 is option to an FY 93 contract.										



Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 3 / Other Support Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												CRANE, WHEEL MTD, 25T, 3/4 CU YD, RT (X00800)
Code:												Other Related Program Elements:
0604804A DH01												B
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty	2755	3	29	25	47	51	49	50	50		3059	
Gross Cost	168.2	1.9	6.1	13.7	11.6	12.4	12.3	12.5	12.4	0.0	251.1	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	168.2	1.9	6.1	13.7	11.6	12.4	12.3	12.5	12.4	0.0	251.1	
Initial Spares												
Total Proc Cost	168.2	1.9	6.1	13.7	11.6	12.4	12.3	12.5	12.4	0.0	251.1	
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This is a commercial all terrain crane, pneumatic tired, diesel engine driven, with fully revolving superstructure and cab, and hydraulically powered telescoping boom. It will be capable of operating with a hydraulic clamshell & grapple; pile driver and concrete bucket in engineer construction excavating missions. It will be capable of lifting, lowering, loading, and handling of general supplies, construction materials and bridging to support maintenance, resupply points and logistic support facilities.

Code B Data: D604804A, DH01 RDTE; Performance Specification Date May 96; DTE/IOTE/OTE/TDP are all N/A as item is non developmental; TC Generic (Alt Standard scheduled for Apr 98; model number to be determined; no test results available as acquisition support by market survey, no testing.)

JUSTIFICATION: FY 99 funding continues acquisition of Force Package 1 requirements. The All Terrain Crane (ATEC) replaces 3 existing overage cranes: 20 ton truck mounted crane; 25 ton truck mounted crane and 20 ton rough terrain crane that include eight different makes and models. These cranes are 17 - 28 years old. This existing crane fleet has low operational readiness rates and incurs significant operating and sustainment (O & S) costs to maintain because of their age. Procurement of the ATEC will provide improved readiness, state-of-art technology, safety, and will blend on and off road mobility capability into one vehicle.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment			P-1 Line Item Nomenclature: CRANE, WHEEL MTD, 25T, 3/4 CU YD, RT (X00800)			Weapon System Type:			Date: February 1998		
OPA			FY 96		FY 97		FY 98		FY 99					
Cost Elements			TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
1. Hardware			615	3	205	5945	29	205	12238	58	211	10258	46	223
2. Logistics Data Deliverables														
a. Publications			286											
b. Other			115											
3. Testing (Production Qualification Test)														
-Government (ATC)						102								
4. Engineering In-House			109			32			115			118		
5. Engineering Change Order						29			48			43		
6. Crane attachment			800	32	25				1326	51	26	1134	42	27
TOTAL			1925			6108			13727			11553		
Quantities shown are current and may differ from P1/P40														

Exhibit P-5a, Budget Procurement History and Planning										Date:
Appropriation / Budget Activity/Serial No:		Weapon System Type:		P-1 Line Item Nomenclature:						
OTHER PROCUREMENT / 3 / Other Support Equipment				CRANE, WHEEL MTD, 25T, 3/4 CU YD, RT (X00800)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
1. Hardware										
FY 96	Grove Worldwide Shadygrove, Pa.	C/FP REQ 5(1)	TACOM	Feb-97	Oct-98	3	205	YES	N/A	
FY 97	Grove Worldwide Shadygrove, Pa.	C/FP REQ 5(2)	TACOM	Feb-97	Jul-98	29	205	YES	N/A	
FY 98	Grove Worldwide Shadygrove, Pa.	C/FP REQ 5(3)	TACOM	Feb-98	Nov-98	58	211	YES	N/A	
FY 99	Grove Worldwide Shadygrove, Pa.	C/FP REQ 5(4)	TACOM	Feb-99	May-99	46	223	YES	N/A	
REMARKS:										









Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 3 / Other Support Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												ITEMS LESS THAN \$2.0M (CONST EQUIP) (ML5350)
0604804A DH01												Other Related Program Elements:
Code: See P-5												
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	81.4	4.3	2.1	2.3	0.8	1.9	2.0	2.0	4.8	3.0	0.0	104.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	81.4	4.3	2.1	2.3	0.8	1.9	2.0	2.0	4.8	3.0	0.0	104.7
Initial Spares												
Total Proc Cost	81.4	4.3	2.1	2.3	0.8	1.9	2.0	2.0	4.8	3.0	0.0	104.7
Flyaway U/C	81.4											
Wpn Sys Proc U/C												

**DESCRIPTION:** This program covers various types of Construction Equipment (CE) where the total acquisition cost for each line item is below \$2,000,000 (total expended program per year).

Water Distributor - Code B Data: D604804A, DH01 RDTE; Performance Specification Date May 98; DTE/IOTE/OTE/TDP are all N/A as item is non developmental; TC Generic (Alt standard scheduled for Jul 99; model number to be determined; no test results available as acquisition support by market survey, no testing.)

Soil Density Tester - Code B Data: D604804A, DH01 RDTE; Performance Specification Date Dec 95; DTE/IOTE/OTE/TDP are all N/A as item is non developmental; TC Generic (Alt Standard scheduled for Feb 99; model number to be determined; no test results available as acquisition support by market survey, no testing.)

Tilt Bed Trailer - Code B Data: D604804A, DH01 RDTE; Performance Specification Date Jun 99; DTE/IOTE/OTE/TDP are all N/A as item is non developmental; TC Generic (Alt Standard scheduled for Jan 01; model number to be determined; no test results available as acquisition support by market survey, no testing.)

**JUSTIFICATION:** FY 99 procures the Water Distributor and the Tilt Trailer. This equipment is required for combat engineering units to build and maintain roads and facilities to support the tactical mission. Construction equipment supports tactical wheeled vehicles and combat equipment in the forward deployment zone by constructing maintenance and storage facilities and roads. This equipment is critical towards ensuring combat readiness and fleet mobilization of U.S. Armed Forces. The Tilt Bed Trailer is a single year buy to procure a lightweight airborne trailer for the XVIII Airborne Corp; and is used to carry construction equipment to the job site. Water Distributor will be used to re-supply combat forces with drinking water during early entry and build up. It will also cool drinking water in arid environments, and it will provide an electronic digital readout which indicates the quality of the water. It can also provide a chlorinated solution to the water to ensure the delivery of potable water to the user. The airborne system is used to control dust on helipads, fire fighting, and as a wash rack.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment				P-1 Line Item Nomenclature: ITEMS LESS THAN \$2.0M (CONST EQUIP) (ML5350)				Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
1. Soil Density/Moisture Tester (R071)	B				376	47	8	595	85	7			
2. Steel Wheel Roller (R035)	A	1048	15	70									
3. Towed Roller (R034)	A	240	12	20				230	1	230	1379	5	276
4. Water Distributor (M031)	B												
5. MCAP Kits	N/A	135	3	45									
6. Small Explacement Excavator Lights (R048)	N/A	2	1	2									
7. T-4 Dozer (M051)	A	630	9	70	1943	1	1945				550	13	42
8. Crushing/Screening Plant (M070)	A												
9. Tilt Trailer (M021)	B												
All items coded A or B above are non-developmental items. As such, they are coded "A" if type classified "standard" and currently being fielded; coded "B" if they are type classified "generic" and have not yet achieved material release (Final approval for service use).		2055			2319			825			1929		
TOTAL													

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 3 / Other Support Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												PUSHER TUG, SMALL (M44500)
Code:												Other Related Program Elements:
A												
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty		1	2	2	1						6	
Gross Cost	0.0	3.8	7.6	6.6	4.3	0.0	0.0	0.0	0.0	0.0	22.3	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	3.8	7.6	6.6	4.3	0.0	0.0	0.0	0.0	0.0	22.3	
Initial Spares												
Total Proc Cost	0.0	3.8	7.6	6.6	4.3	0.0	0.0	0.0	0.0	0.0	22.3	
Flyaway U/C												
Wpn Sys Proc U/C												

**DESCRIPTION:** The Small Tug, 900 class is a steel hull craft approximately 60 feet in length with a maximum draft of 8 feet when fully loaded and is capable of operating in Sea State 3. It has a capability of reaching a minimum of 8 knots sustained speed when fully loaded, no tow, in Sea State 2. It has twin propulsors with twin diesel inboard drive, pilothouse control, five berths, dinette with seating for four and two diesel engine driven (DED) generators. The mission of the tug is to provide towing of general cargo barges in harbors, inland waterways, and along coastlines. It will also assist larger tugs in the performance of heavier utility work such as: docking & undocking ships of all sizes, movement of floating cranes, floating machine shops, and line handling duties. Current program is for seven tugs with a total Army requirement of eight tugs.

**JUSTIFICATION:** FY 99 continues procurement of the pusher tug. The Army has a mission to fully support deployment and sustainment of forces during port operations whether fixed or Logistics-Over-The-Shore (LOTS). During Operation Desert Shield/Storm it became very apparent that the 40 year-old Small Tugs could not be relied upon to move the various types of barges, lighters, and cranes within and without the harbor during any type of severe weather. Cost estimates have shown that it is cheaper to build new, large-engined Tugs which can operate effectively in Sea State 3, rather than modify the 40 year-old Small Tugs. The first vessel will go to the 7th Group, along with vessels 3 and 4. The 2nd vessel is scheduled for delivery to the 949th, Curtis Bay, MD. The requirements for the Small Tugs have been validated by the Army Strategic Mobility Plan (ASMP) and the Army Watercraft Master Plan (AWMP).

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment			P-1 Line Item Nomenclature: PUSHER TUG, SMALL (M44500)			Weapon System Type:			Date: February 1998		
OPA			FY 96			FY 97			FY 98			FY 99		
Cost Elements			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. Hardware	A		2649	1	2649	6744	3	2248	4484	2	2242	2342	1	2342
2. Documentation			706			55			195			100		
3. Engineering			128			150			234			189		
In - House			50			80			122			125		
Contractor			125			100			341			250		
4. Engineering Change Orders			72			100			244			240		
5. Testing (Acceptance/Engineering Change)														
6. Auxiliary Equipment			72			370			977			1023		
TOTAL			3802			7599			6597			4269		

Quantities shown here are current  
and may differ from P1/P40

Exhibit P-5a, Budget Procurement History and Planning										Date:
Appropriation / Budget Activity/Serial No:										February 1998
OTHER PROCUREMENT / 3 / Other Support Equipment										
Weapon System Type:										
P-1 Line Item Nomenclature:										
PUSHER TUG, SMALL (M44500)										
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Fiscal Years										
HARDWARE										
FY96	Orange Shipbuilding, Orange, TX	C/FP	TACOM	Apr-96	Jul-98	1	2649	YES	N/A	
FY97	Orange Shipbuilding, Orange, TX.	C/FP(Opt)	TACOM	Apr-97	Aug-98	3	2248	YES	N/A	
FY98	TBS	C/FP(Opt)	TACOM	Jun-98	Apr-99	2	2242	YES	N/A	
FY99	TBS	C/FP(Opt)	TACOM	Mar-99	Jan-00	1	2342	YES	N/A	
<b>REMARKS:</b> Cost efficiencies were obtained through the use of option clauses resulting in lower costs after FY96 (economies of scale for the builder). June 98 award date reflects requirement for prior completion of First Article Test.										









Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 3 / Other Support Equipment												FLOATING CRANE, 100-250 TON (M32400)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code:												A	
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog		
Proc Qty			1	1							2		
Gross Cost	0.0	0.0	13.9	13.7	0.0	0.0	0.0	0.0	0.0	0.0	27.6		
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	0.0	13.9	13.7	0.0	0.0	0.0	0.0	0.0	0.0	27.6		
Initial Spares													
Total Proc Cost	0.0	0.0	13.9	13.7	0.0	0.0	0.0	0.0	0.0	0.0	27.6		
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION: The Floating Crane will be constructed of steel and capable of off-loading existing and projected shipping through the year 2020. The crane must be transportable on Float On/Float Off (FLO/FLO) ships, have living accommodations (berthing, cooking, and sanitation) for 15 persons; and have heating, ventilation, and air conditioning. The crane must operate on diesel and/or Jet Propellant - 8 (JP-8) fuel for 30 days without refueling. It must be operational during night operations and while soldiers are dressed in Mission Oriented Protective Posture IV (MOPP IV) clothing.

Exhibit P-5, Weapon OPA Cost Analysis				Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment				P-1 Line Item Nomenclature: FLOATING CRANE, 100-250 TON (M32400)				Weapon System Type:		Date: February 1998	
OPA Cost Elements				FY 96		FY 97		FY 98		FY 99					
				TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
1. Hardware							12900	1	12900	12670	1	12670			
2. Documentation							230			200					
3. Engineering In-House							422			333					
4. Engineering Change Orders							211			541					
5. Testing (Performance/Operational)							125								
TOTAL							13888			13744					

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No:		Weapon System Type:		P-1 Line Item Nomenclature:						
OTHER PROCUREMENT / 3 / Other Support Equipment				FLOATING CRANE, 100-250 TON (M32400)						
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
1. Hardware FY97	BOLLINGER SHIPYARD LOCKPORT, LA	C/FP (OPT)	TACOM	Apr-97	Jun-98	1	12900	YES	N/A	
FY98	BOLLINGER SHIPYARD LOCKPORT, LA	C/FP (OPT)	TACOM	Feb-98	Jan-99	1	12670	YES	N/A	
REMARKS:										







Exhibit P-40, Budget Item Justification Sheet												
Appropriation / Budget Activity/Serial No:										Date:		February 1998
OTHER PROCUREMENT / 3 / Other Support Equipment										P-1 Item Nomenclature:		
CONTAINERIZED MAINTENANCE FACILITY (M11300)												
Program Elements for Code B Items:										Other Related Program Elements:		
Code: B												
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty						1		1				2
Gross Cost	0.0	0.0	0.0	0.0	0.0	5.3	0.0	1.0	0.0	0.0	0.0	6.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	0.0	5.3	0.0	1.0	0.0	0.0	0.0	6.3
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	0.0	5.3	0.0	1.0	0.0	0.0	0.0	6.3
Flyaway U/C												
Wpn Sys Proc U/C												

**DESCRIPTION:** The Containerized Maintenance Facility (CMF) will be repair facilities housed in one-sided-expandable International Standards Organization (ISO) containers. The rapidly deployable, lightweight containerized system will supplant the existing Floating Machine Shop (FMS). The system consists of four shops in four separate containers; a machine/welding shop; an air conditioning/hydraulic shop; an engine/component rebuild shop; and a communications/electronic repair shop. A single two-sided-expandable shelter will be used to house a shop office. Two additional ISO containers will be used to hold support equipment and spare parts.

**Code B Data:** The Containerized Maintenance Facility is intended to replace the Floating Machine Shop and supporting Barge Cargo Deck Enclosure on a one for one basis. Development Test and Evaluation (DTE) is scheduled for May 99. Delivery of first unit is scheduled for May 2000, with Operational Test and Evaluation (OTE) scheduled for Aug 2000. The CMF is also supported with Research & Development funds from Program Element (PE) 0604804A, Project D461 in addition to Procurement Funding support. The system is currently undergoing technical review by the engineering and user communities to determine suitability from requirements, safety and reliability perspectives.

**JUSTIFICATION:** FY 99 procures 3 CMFs. The Army must be able to fully support deployment and sustainment of forces in an overseas operational environment, to include conducting port-type operations in either fixed-port facilities or in Logistics-Over-The-Shore (LOTS) operations. To meet and fully support this mission requirement, it is imperative that Army watercraft be provided both Direct Support Maintenance and General Support Maintenance (DS/GS) in the operational theater. The DS/GS maintenance is required immediately upon arrival of Army watercraft. The FMS is not self-deployable; it requires an ocean-going tug or transport by a Heavy Lift Preposition Ship (HLPS) to move it into a theater of operation. The CMF is a modular system which is easily transported on numerous vessels and is readily emplaced in service. Based on latest information in Army Strategic Plans, it is anticipated that the first FY99 CMF will be placed in prepositioned war reserves.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment				P-1 Line Item Nomenclature: CONTAINERIZED MAINTENANCE FACILITY (M11300)				Weapon System Type:		Date:
OPA Cost Elements			FY 96		FY 97		FY 98		FY 99				February 1998
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	\$000
1. Hardware												5187	1729
2. Documentation												45	
3. Engineering In-House												25	
4. Testing												43	
Quantities shown are current and may differ from P1/P40													
TOTAL												5300	

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No:		Weapon System Type:		P-1 Line Item Nomenclature:						
OTHER PROCUREMENT / 3 / Other Support Equipment				CONTAINERIZED MAINTENANCE FACILITY (M11300)						
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Fiscal Years										
1. Hardware										
FY99	Construction Battalion Center	MIPR	TACOM	Mar-99	Mar-00	3	1729	YES	N/A	
REMARKS:										





Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 3 / Other Support Equipment												CAUSEWAY SYSTEMS (R97500)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	75.8	1.0	0.0	0.0	0.0	17.1	18.1	18.6	9.0	10.2	0.0	149.8	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	75.8	1.0	0.0	0.0	0.0	17.1	18.1	18.6	9.0	10.2	0.0	149.8	
Initial Spares													
Total Proc Cost	75.8	1.0	0.0	0.0	0.0	17.1	18.1	18.6	9.0	10.2	0.0	149.8	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION: The Causeway Systems include the Floating Causeway (FC), the Powered Causeway (PC), and the Roll On/Roll Off Discharge Facility (RRDF). The components provide a means to move cargo across unimproved beaches in areas of the world where fixed port facilities are unavailable, denied, or otherwise unacceptable. They are composed of sections that are nominally 80 feet by 24 feet by 4.5 feet. The sections are composed of modular, International Standards Organization (ISO) compatible modules. Each section is capable of transporting up to 100 short tons with 12 inches of freeboard and is fitted with the Navy designed flexor and shear connector system. The three systems are stand alone; however, they are constructed from the same basic building blocks. They are interoperable, but not interdependent.

JUSTIFICATION: FY 99 procures 2 Roll On/Roll Off Discharge Facility (FFDF). The RRDF shortfall is the most critical of the modular causeway system procurements. The shortage of RRDF systems extends the discharge time from Large Medium Speed Roll On/Roll Off (LMSR) ships by 700 percent. The lack of RRDF requires that all cargo be lifted off the vessel during Logistics-Over-The-Shore (LOTS) operations, even when the vessel is a LMSR (i.e., equipped with a Roll On/Roll Off) ramp. The first RRDF will go to the 331st Causeway Company, Ft. Eustis, Va. The other RRDF system will go in the Army War Reserve (Prepositioned).

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment		P-1 Line Item Nomenclature: RO/RO DISCHARGE PLATFORM (R09800)		Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99	
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each
1. Hardware	A							14110	2
2. Documentation								1125	
3. Engineering								175	
In-House								100	
Contractor								147	
4. Engineering Change Orders								441	
5. Royalties								860	
6. Testing (Operational Testing)								125	
7. STS (System Intergration)									
TOTAL								17083	

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment			Weapon System Type:		P-1 Line Item Nomenclature: ROBO DISCHARGE PLATFORM (R09800)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revis Avail	RFP Issue Date
HARDWARE  FY99	TBS	C/FP/OPT	TACOM	Dec-98	Dec-99	2	7055	YES	N/A	Aug-98
REMARKS:										





Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 3 / Other Support Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												RAILWAY CAR, FLAT, 100 TON (M37000)
Code:												Other Related Program Elements:
A												
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	432	140	76	138		148	101					1035
Gross Cost	41.0	14.6	8.3	13.7	0.0	12.8	5.1	0.0	0.0	0.0	0.0	95.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	41.0	14.6	8.3	13.7	0.0	12.8	5.1	0.0	0.0	0.0	0.0	95.5
Initial Spares												
Total Proc Cost	41.0	14.6	8.3	13.7	0.0	12.8	5.1	0.0	0.0	0.0	0.0	95.5
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: Funding is for the acquisition of 89 foot railcars of a design type already approved by the Association of American Railroads (AAR). Railcars are to be prepositioned at select Army installations per the congressionally mandated Mobility Requirements Study (MRS) approved by the Joint Chiefs of Staff (JCS) in January 1992, and per the Army Strategic Mobility Plan (ASMP). The Containers on Flat Cars (COFC) railcars being acquired with FY97 funds are reconditioned rather than new. The additional multi purpose cars needed in FY99 and FY00 are not available in the used market. The Army has made two unsuccessful tries, FY 95 and FY 97 at procuring used Multi-Purpose Cars. In FY 95, there were no bidders and the Army had to buy new cars. For FY 97, the Army was also unable to procure Multi-Purpose Cars and had to settle for its second priority, used 89 foot COFC. FY97 deliveries are to Tooele Army Depot, Lexington Blue Grass Army Depot, Crane, and McAllister.

JUSTIFICATION: FY 99 procures 117 rail cars. Prepositioning of railcars at Army installations is essential for mobilization purposes, especially with the forces becoming increasingly CONUS based. Under the ASMP, the lead brigade at select installations must be fully outloaded to the port of embarkation in C+2 days, with an entire division to be outloaded in C+6 days. Experience with the railroad industry (as evidenced during Desert Shield/Desert Storm) has shown that it takes an average time of seven to ten days to order and receive commercial railcars for outloading purposes. Additionally, industry is retiring many of their fleet of flatcars with no intention of replacement. As such, to meet the C+2 and C+6 mobilization requirements in response to regional threats/conflicts, it is essential that the Army acquire and preposition railcars at installations such as Ft. Hood, Ft. Campbell, Ft. Stewart, Ft. Bliss and Ft. Benning. The acquisition of railcars is required to outload combat and combat support equipment in the time frames required, thereby greatly enhancing our warfighting capability.

Exhibit P-40C Budget Item Justification Sheet				Date
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature		February 1998
OTHER PROCUREMENT / 3 / Other Support Equipment		Other Related Program Elements		RAILWAY CAR, FLAT, 100 TON (M37000)
Program Elements for Code B Items		Code		
		A		
<p>The total ASMP requirement for prepositioned railcars is 1,425. The Army currently has on hand 905 railcars and expects to have 1,226 railcars when the FY 97 procurement is delivered. The Army still needs to procure 199 additional railcars. Of these 199, 169 will be Multi-Purpose and 30 will be COFC.</p>				

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment			P-1 Line Item Nomenclature: RAILWAY CAR, FLAT, 100 TON (M37000)			Weapon System Type:			Date: February 1998		
ID	CD	OPA Cost Elements	FY 96			FY 97			FY 98			FY 99		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1.		Hardware												
		Railway Car, 89 Foot Multi-Purpose (New												
		Railway Car, 89 Foot, Container on												
		Flatcar (COFC) (Reconditioned)												
			8324	76	110	13741	321	43	12804	117		12804	117	109
		Quantities shown are current and may differ from P1/P40												
			8324			13741						12804		
		TOTAL												

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No:		Weapon System Type:			P-1 Line Item Nomenclature:					
OTHER PROCUREMENT / 3 / Other Support Equipment					RAILWAY CAR, FLAT, 100 TON (M37000)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Fiscal Years										
1. Hardware										
FY97 Railway Car, 89 Foot, Container on Flatcar (COFC) (Reconditioned)	BOSTON TRANSIT GROUP, MA	C/FP	ATCOM	Aug-97	Dec-97	321	43	YES	N/A	
FY99, Railway car, 89 Foot, New	TBS	C/FP	TACOM	Mar-99	Oct-99	117	109	YES	N/A	
REMARKS:										









Exhibit P-40, Budget Item Justification Sheet											Date:	February 1998
Appropriation / Budget Activity/Serial No:			P-1 Item Nomenclature:								ITEMS LESS THAN \$2.0M (FLOAT/RAIL) (ML5355)	
OTHER PROCUREMENT / 3 / Other Support Equipment			Other Related Program Elements:									
Program Elements for Code B Items:			Code:									
			A									
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	46.7	2.0	2.0	3.7	9.0	3.2	6.5	6.3	4.2	3.2	0.0	86.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	46.7	2.0	2.0	3.7	9.0	3.2	6.5	6.3	4.2	3.2	0.0	86.8
Initial Spares												
Total Proc Cost	46.7	2.0	2.0	3.7	9.0	3.2	6.5	6.3	4.2	3.2	0.0	86.8
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: Railroad equipment consists of locomotives, rolling stock, track maintenance equipment, etc., used to support Army ammunition plants, Army Materiel Command (AMC) depots, and Forces Command (FORSCOM) and Training and Doctrine (TRADOC) installations in peacetime and mobilization missions. Funding for Float items is for the acquisition of six Roll-on/Roll off Discharge Facility (RRDF) to support C3 Readiness Objective. The Modular Containerway Components provide a floating platform interface between Roll-on Roll-off (RO/RO) ship and lighters for the discharge of rolling cargo during Logistics Over The Shore (LOTS) operations.

JUSTIFICATION: In FY 99, these items provide for the replacement of overage, logistically unsupportable assets.

1. **Boxcar, (M377, 50 Ton, 50 Foot):** The Boxcar will provide a safe, secure means for the holding, transportation, and handling of hazardous materials used in the ammunition manufacturing process, and in the movement of completed ammunition to distribution points. This railroad equipment meets Federal Railroad Administration (FRA) standards and increases Army munition Plant readiness capabilities.

2. **Flatcar, (M371), 50 Ton:** The flatcar will provide a safe, secure means for the transportation and handling of hazardous materials used in ammunition manufacturing process, and in the movement of completed ammunition to distribution points. The railroad equipment meets FRA standards and increases Army munition Plant readiness capabilities.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment			P-1 Line Item Nomenclature: ITEMS LESS THAN \$2.0M (FLOAT/RAIL) (MA5355)			Weapon System Type:			Date: February 1998		
OPA Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
	A	BOXCAR, (M377), 50 TON, 50 FOOT	1472	52	28	1999	51	39	1999	49	41	2626	62	42
	A	FLATCAR, 50 TON (M371), 50 TON	528	14	38	1708	45	38	1919	45	43	609	14	44
	A	MODULAR CAUSEWAY SECTION							1213	36	34			
	A	CAUSEWAY LIGHTING							1604	36	45			
	A	CAUSEWAY COMMUNICATIONS SYSTEM							916	36	25			
	A	CAUSEWAY ANCHOR SYSTEM							1300	36	36			
TOTAL			2000			3707			8951			3235		

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998	
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										GENERATORS AND ASSOCIATED EQUIP (MA9800)		
OTHER PROCUREMENT / 3 / Other Support Equipment		Other Related Program Elements:												
Program Elements for Code B Items:		Code:												
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog		
Proc Qty														
Gross Cost	1286.9	26.1	12.5	27.3	7.5	82.7	81.5	90.0	47.6	71.9		1734.0		
Less PY Adv Proc														
Plus CY Adv Proc														
Net Proc (P-1)	1286.9	26.1	12.5	27.3	7.5	82.7	81.5	90.0	47.6	71.9		1734.0		
Initial Spares														
Total Proc Cost	1286.9	26.1	12.5	27.3	7.5	82.7	81.5	90.0	47.6	71.9		1734.0		
Flyaway U/C														
Wpn Sys Proc U/C														

**DESCRIPTION:** The Tactical Quiet Generators (TQG) and 2kW Military Tactical Generator (MTG) diesel programs are a result of Army and DoD direction to replace the current generator fleet. The current fleet is overaged and does not meet current user requirements. These requirements are designed to introduce into the DoD inventory a new family of generators (sizes 2kW through 60kW) that will satisfy the user requirements for:

1. Reduction in detection by threat forces of 80% (low operating noise and infrared suppression).
2. Improved ground mobility for power units/power plants (PU/PP) (trailer mounted generator sets).
3. Improved reliability and lower operating and support costs (reduction in scheduled maintenance, reduction in fuel consumption).
4. Improved battlefield survivability (high altitude electromagnetic pulse protection).
5. Single fuel on the battlefield (diesel/JP8).
6. Reduced generator requirements by utilizing the Distribution Illumination System Electric (DISE).

The generators and associated equipment budget line is a roll line containing some 40 separate generators, power plants/power units and associated equipment.

**JUSTIFICATION:** FY99 funds will provide for the replacement of the current fleet of overaged, gasoline fueled generators with modernized diesel assets that will enhance the user's safety and survivability. These modernized mobile generators provide electrical power to virtually every weapon, communication, medical and combat support system in the Army inventory. FY99 continues the production and fielding of 2kW and 5-60kW TQG skid mounted generator sets, power units and power plants in support of Force Package I and II. FY99 initiates production/fielding of the new 3kW TQG skid mounted generator set, and power plants for Force Package I.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment			P-1 Line Item Nomenclature: GENERATORS AND ASSOCIATED EQUIP (MA9800)			Weapon System Type:			Date: February 1998		
OPA Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
	A	2kW Military Tactical Generator	6034			5264			1304			9412		
	B	3kW Tactical Quiet Generator				3412			337			13730		
	A	5kW Tactical Quiet Generator				4138			337			14471		
	A	10kW Tactical Quiet Generator	72			1785			337			13113		
	A	15kW Tactical Quiet Generator				823			923			4421		
	A	30kW Tactical Quiet Generator	2186			823			923			2178		
	A	60kW Tactical Quiet Generator	2731			8313			2065			4372		
	A	Power Units / Power Plants (Various Configurations)	273									18563		
	A	Distribution Illumination Systems Electrical				350						497		
		Readiness Incentives	1184			2400			1300			1992		
		<b>TOTAL</b>	<b>12480</b>			<b>27308</b>			<b>7526</b>			<b>82749</b>		

Exhibit P-40, Budget Item Justification Sheet											Date:	February 1998
Appropriation / Budget Activity/Serial No:			P-1 Item Nomenclature:									
OTHER PROCUREMENT /Other Support Equipment / 53800426			2 KW MILITARY TACTICAL GENERATOR									
Program Elements for Code B Items:			Other Related Program Elements:									
		Code:										
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty			672	1143	106	2135	1910	2427				8393
Gross Cost	0.0	0.0	6.0	5.3	1.3	9.4	8.5	10.9	0.0	0.0		41.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	6.0	5.3	1.3	9.4	8.5	10.9	0.0	0.0		41.4
Initial Spares												
Total Proc Cost	0.0	0.0	6.0	5.3	1.3	9.4	8.5	10.9	0.0	0.0		41.4
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: 2kW Military Tactical Generator, Manportable/Skid Mounted, Diesel/JP8 fueled, AC (60Hz) and DC (28Vdc)

JUSTIFICATION: FY99 continues the production and fielding of skid mounted generator sets in support of Force Package I and II. This program will replace existing overaged gasoline engine driven sets with modernized new assets with improved reliability, reduced noise signatures, and diesel/JP8 fueled engines. These new modernized sets will replace gasoline fueled generators supporting the following systems:

MISSILE/AIR DEFENSE SYSTEMS:

- Avenger
- Tactical Command/Control/Intelligence Computer Systems

COMMUNICATION SYSTEMS:

- Radio Terminal Systems (BCR 11)
- Radio Relay/Repeater System
- Satellite Communication Systems

COMBAT SERVICE SUPPORT:

- Field Feeding Systems
- Unit Administrative Centers
- Maintenance/Supply Operation Systems

Exhibit P-5. Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT /Other Support Equipment / 53800426			P-1 Line Item Nomenclature: 2 KW MILITARY TACTICAL GENERATOR			Weapon System Type:			Date: February 1998		
OPA Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	cd		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1.	A	Item Hardware 2kW/60Hz AC - M59400 2kW/DC - M59300 (Competitive) 2kW/60Hz AC - M59400 (Competitive)	3250 42 1412	650 6 16	5 7 88	971 3780	250 893	4 4	452	106	4	9037	2135	4
2.		Engineering Government	325			438			572			275		
3.		Engineering Change Orders	325			75			280			100		
4.		Acceptance Testing	380											
5.		Data	300											
TOTAL			6034			5264			1304			9412		

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT /Other Support Equipment / 53600426		Weapon System Type:		P-1 Line Item Nomenclature: 2 KW MILITARY TACTICAL GENERATOR						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
2kW/60Hz / AC M59400										
FY97	Dewey Electronics, Oakland, NJ	C/FP-RS(1)	CECOM	May-97	Jan-98	770	4	Yes		
FY97	Dewey Electronics, Oakland, NJ	C/FP-RS(1)	CECOM	Jul-97	Mar-98	123	4	Yes		
FY98	Dewey Electronics, Oakland, NJ	C/FP-RS(2)	CECOM	Jan-98	Sep-98	106	4	Yes		
FY99	Dewey Electronics, Oakland, NJ	C/FP-RS(3)	CECOM	Jan-99	Sep-99	2135	4	Yes		
2kW / DC M59300										
FY97	Dewey Electronics, Oakland, NJ	C/FP-RS(1)	CECOM	May-97	Jan-98	250	4	Yes		
<b>REMARKS:</b> Competitive solicitation resulted in award of a five year requirements type contract to Dewey Electronics Corp, Oakland, NJ, in Aug 96. PCO change from ATCOM to CECOM is due to BRAC 95 realignment.										









Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT (Other Support Equipment) / 53600426												3KW TACTICAL QUIET GENERATOR	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty						1500	2356	2356	2356	2356		10924	
Gross Cost	0.0	0.6	0.0	0.0	0.0	13.7	20.4	20.4	20.4	20.4		95.9	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	0.6	0.0	0.0	0.0	13.7	20.4	20.4	20.4	20.4		95.9	
Initial Spares													
Total Proc Cost	0.0	0.6	0.0	0.0	0.0	13.7	20.4	20.4	20.4	20.4		95.9	
Flyaway U/C													
Wpn Sys Proc U/C													
DESCRIPTION: 3kW Tactical Quiet Generator, Skid Mounted, Diesel Fueled													
JUSTIFICATION: FY 99 funds will replace existing gasoline fueled generator sets with modernized assets that increase safety and survivability by reducing operating noise levels, reducing weight, providing high altitude electromagnetic pulse protection, and increasing infrared signature suppression. Some of these generators will be used as components of the power plant production program. These new modernized sets will support the following systems:													
<ul style="list-style-type: none"> <li>- Avenger</li> <li>- Mobile Subscriber Equipment</li> <li>- Patriot Missile</li> <li>- THAADs</li> <li>- Multiple Launch Rocket System</li> <li>- Numerous communication and combat support systems</li> </ul>													

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT /Other Support Equipment / 53600426				P-1 Line Item Nomenclature: 3KW TACTICAL QUIET GENERATOR				Weapon System Type:		Date: February 1998	
OPA Cost Elements			FY 96		FY 97		FY 98		FY 99					
ID			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
CD			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. Item Hardware 3kW/60Hz/M65100												12750	1500	9
2. Engineering Government												275		
3. Engineering Change Orders												100		
4. Preproduction Qualification Testing												605		
5. Data														
TOTAL												13730		

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No:		Weapon System Type:		P-1 Line Item Nomenclature:						
OTHER PROCUREMENT / Other Support Equipment / 53600426				3KW TACTICAL QUIET GENERATOR						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
FY99										
3kW/60Hz - M58100	TBS	C/FP-R5(3)	CECOM	Apr-99	Dec-99	1500	9			
<b>REMARKS:</b> A competitive R&D contract was awarded in Sep 96 to Goodman Ball, Menlo Park, CA, Ferromont, Bridgeport, CT, and T&J Manufacturing, Oshkosh, WI. . There will be a downselect to one supplier in Jan 98.										





Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT Other Support Equipment / 53600426												SKW TACTICAL QUIET GENERATOR	
Program Elements for Code B Items:												Other Related Program Elements:	
Code:													
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog		
Proc Qty		100	300		1425	1472	2163	779	1197		7436		
Gross Cost	37.6	1.9	3.4	0.3	14.5	16.9	24.2	9.2	14.0		122.0		
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	37.6	1.9	3.4	0.3	14.5	16.9	24.2	9.2	14.0		122.0		
Initial Spares													
Total Proc Cost	37.6	1.9	3.4	0.3	14.5	16.9	24.2	9.2	14.0		122.0		
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION: 5kW Generator Set, Skid Mounted, Diesel Fueled Tactical Quiet Generator, 60Hz and 400Hz

JUSTIFICATION: These generators will replace existing overaged gasoline/diesel sets with modernized assets that increase safety and survivability by reducing operating noise levels, reducing weight, providing high altitude electromagnetic pulse protection, and increasing infrared signature suppression. These generators are components of the power unit/power plant production program. These new modernized sets will replace gasoline fueled generators supporting the following systems:

<b>MISSILE/AIR DEFENSE SYSTEMS:</b> - THAADs - Tow Missile Systems - Patriot Missile System - Avenger - Multiple Launch Rocket System	<b>SUPPORT SYSTEMS:</b> - Aviation Units - Command and Control Centers - AFATDS - Division XXI	<b>COMMUNICATION SYSTEMS:</b> - MSE - Radio Terminal Systems (BCR 11) - Radio Relay/Repeater Systems - Satellite Communication Systems - Combat Computer Systems - Tactical Operations Centers
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FY99 continue the production and fielding of skid mounted generator sets, power units and power plants in support of Force Package II. Due to component commonality the the 5kW and 10kW, they are to be procured under the same contract and produced on the same production line. Engineering support costs for the TQG programs are not independent, but must be considered in total to maintain program integrity.



Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT /Other Support Equipment / 53600426				P-1 Line Item Nomenclature: 5KW TACTICAL QUIET GENERATOR				Weapon System Type:		Date: February 1998	
OPA Cost Elements			FY 96		FY 97		FY 98		FY 99					
ID			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
CD			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
A						1971	210	9				14096	1425	10
1. Item Hardware 5kW/60Hz - M53500 5kW/60Hz - M53500 (Rebuy)						890	90	10						
2. Engineering Government						483			287			275		
3. Engineering Change Orders									50			100		
4. Acceptance Test						68								
5. Data														
TOTAL						3412			337			14471		

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No.		Weapon System Type:		P-1 Line Item Nomenclature:						
OTHER PROCUREMENT / Other Support Equipment / 53600426				5KW TACTICAL QUIET GENERATOR						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
5kW/60Hz - M535 FY97 FY97 (Rebuy) FY99	Fermont, Bridgeport, CT Fermont, Bridgeport, CT Fermont, Bridgeport, CT	C/FP-R3(3) C/FP-R10(1) C/FP-R10(2)	ATCOM ATCOM CECOM	Mar-97 Jun-97 Jan-99	Mar-98 Jun-98 Jan-00	210 90 1425	9 10 10	Yes Yes Yes		
<b>REMARKS:</b> Rebuy contract was awarded to Fermont, Bridgeport, CT, in Jun 97. It is a 10 year requirements contract. PCO change from ATCOM to CECOM is due to BRAC 95 realignment. Unit cost is firm fixed price regardless of quantity.										







Exhibit P-40, Budget Item Justification Sheet											Date:	February 1998
Appropriation / Budget Activity/Serial No:											P-1 Item Nomenclature:	
OTHER PROCUREMENT /Other Support Equipment / 53600426											10KW TACTICAL QUIET GENERATOR	
Program Elements for Code B Items:											Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty		100		316		1133	1111	817	367	467		4311
Gross Cost	49.6	1.7	0.1	4.1	0.3	13.1	14.2	10.8	5.2	6.5		105.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	49.6	1.7	0.1	4.1	0.3	13.1	14.2	10.8	5.2	6.5		105.5
Initial Spares												
Total Proc Cost	49.6	1.7	0.1	4.1	0.3	13.1	14.2	10.8	5.2	6.5		105.5
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: 10kW Generator Set, Skid Mounted, Diesel Fueled, Tactical Quiet Generator, 60Hz and 400Hz

JUSTIFICATION: These generator sets will replace existing generator sets with assets that increase safety and survivability by reducing operating levels, reducing weight, providing high altitude electromagnetic pulse protection, and increased infrared signal suppression. These generators are components of the power unit/ power plant production program. These new modernized sets will replace gasoline fueled generators supporting the following systems:

<b>MISSILE/AIR DEFENSE SYSTEMS:</b> - THAADs - Tow Missile Systems - Patriot Missile System - Avenger - Multiple Launch Rocket System	<b>SUPPORT SYSTEMS:</b> - Aviation Units - Laundry Units - Command and Control Centers - AFATDS - Division XXI	<b>COMMUNICATION SYSTEMS:</b> - MSE - Radio Terminal Systems (BCR 11) - Radio Relay/Repeater Systems - Satellite Communications Systems - Combat Computer Systems - Tactical Operations Centers
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FY99 continue the production and fielding of skid mounted generator sets and power units in support of Force Package II. Due to component commonality in the 5kW and 10kW, they are procured under the same contract and produced on the same production line. Engineering support costs for the TQG programs are not independent, but must be considered in total to maintain program integrity.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT /Other Support Equipment / 53600426			P-1 Line Item Nomenclature: 10KW TACTICAL QUIET GENERATOR			Weapon System Type:			Date: February 1998		
OPA			FY 96			FY 97			FY 98			FY 99		
Cost Elements			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. Item Hardware														
10kW/60Hz - M52900						2291	210	11						
10kW/400Hz - M56500						1192	106	11						
10kW/60Hz - M52900 (Rebuy)												12738	1133	11
2. Engineering Government						587			287			275		
3. Engineering Change Orders						5			50			100		
4. Acceptance Testing						68								
5. Data						5								
TOTAL			72			4138			337			13113		

Exhibit P-5a, Budget Procurement History and Planning										Date:
Appropriation / Budget Activity/Serial No:										February 1998
OTHER PROCUREMENT /Other Support Equipment / 53600426										
Weapon System Type:										
P-1 Line Item Nomenclature:										
10KW TACTICAL QUIET GENERATOR										
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
10KW/60Hz - M52900	Fermont, Bridgeport, CT	C/FP-R3(3)	ATCOM	Mar-97	Mar-98	210	11	Yes		
FY97	Fermont, Bridgeport, CT	C/FP-R10(1)	ATCOM	Jun-97	Jun-98	106	11	Yes		
FY99	Fermont, Bridgeport, CT	C/FP-R10(2)	CECOM	Jan-99	Jan-00	1133	11	Yes		
<b>REMARKS:</b> Rebuy contract was awarded to Fermont, Bridgeport, CT, in Jun 97. It is a 10 year requirements contract. PCO change from ATCOM to CECOM is due to BRAC 95 realignment. Unit cost is firm fixed price regardless of quantity.										









Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT /Other Support Equipment / 53600426												15KW TACTICAL QUIET GENERATOR	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty		192		130		328	105	371	57	144		1327	
Gross Cost	17.2	3.3	0.0	1.8	0.3	4.4	2.2	5.6	1.3	2.5		38.6	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	17.2	3.3	0.0	1.8	0.3	4.4	2.2	5.6	1.3	2.5		38.6	
Initial Spares													
Total Proc Cost	17.2	3.3	0.0	1.8	0.3	4.4	2.2	5.6	1.3	2.5		38.6	
Flyaway U/C													
Wpn Sys Proc U/C													
DESCRIPTION: 15kW Generator Set, Skid Mounted, Tactical Quiet Generator, 60Hz and 400Hz													
<p>JUSTIFICATION: These generators will replace existing overaged generator sets with modernized assets that increase safety and survivability by reducing noise operating levels, reducing weight, provide high altitude electromagnetic pulse protection, and increase infrared signal suppression. These modernized sets will replace overaged generators supporting the following systems:</p>													
MISSILE/AIR DEFENSE SYSTEMS:				SUPPORT SYSTEMS:				COMMUNICATION SYSTEMS:					
- THAADs				- Water Purification Systems				- Mobile Subscriber Equipment					
- Tow Missile				- Aviation Units				- Radio Relay/Repeater Systems					
- Patriot Missile				- Modular Print System				- Satellite Communication Systems					
- Avenger				- Command and Control Centers				- Tactical Operations Centers					
				- AFATDS									
				- Division XXI									
<p>The FY99 program continues the production and fielding of 15kW TQG sets to Force Package II. Engineering support costs for the TQG programs are not independent, but must be considered in total to maintain program integrity.</p>													

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT/ Other Support Equipment / 53600426			P-1 Line Item Nomenclature: 15KW TACTICAL QUIET GENERATOR			Weapon System Type:			Date: February 1998		
ID	CD	OPA Cost Elements	FY 96			FY 97			FY 98			FY 99		
			TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
1.		Item Hardware												
		15kW/60Hz - M54900				1247	110	11						
		15kW/400Hz - M52600				241	20	12				3498	290	12
		15kW/60Hz - M54900 (Rebuy)										548	38	14
		15kW/400Hz - M52600 (Rebuy)												
2.		Engineering Government				229			287			275		
3.		Engineering Change Orders							50			100		
4.		Acceptance Testing				68								
5.		Data												
		<b>TOTAL</b>				1785			337			4421		

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT /Other Support Equipment / 53600426			Weapon System Type:			P-1 Line Item Nomenclature: 15KW TACTICAL QUIET GENERATOR					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date	
15kW/60Hz - M54900 FY97 FY97 (Rebuy) FY99	Fermont Fermont Fermont	C/FP-R3(3) C/FP-R10(1) C/FP-R10(2)	ATCOM ATCOM CECOM	Mar-97 Jun-97 Jan-99	Mar-98 Jun-98 Jan-00	110 20 290	11 12 12	Yes Yes Yes			
15kW/400Hz - M52600 FY99	Fermont	C/FP-R10(2)	CECOM	Jan-99	Jan-00	38	14	Yes			
<b>REMARKS:</b> Rebuy contract was awarded to Fermont, Bridgeport, CT, in Jun 97. It is a 10 year requirements contract. PCO change from ATCOM to CECOM is due to BRAC 95 realignment. Unit cost is firm fixed price regardless of quantity.											









Exhibit P-40, Budget Item Justification Sheet											Date:	February 1998
Appropriation / Budget Activity/Serial No:											P-1 Item Nomenclature:	
OTHER PROCUREMENT / Other Support Equipment / 53600426											30KW TACTICAL QUIET GENERATOR	
Program Elements for Code B Items:											Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty		445	24			117	77	37	15	127		842
Gross Cost	22.7	6.6	2.7	0.8	0.9	2.2	2.1	1.3	0.7	2.6		42.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	22.7	6.6	2.2	0.8	0.9	2.2	2.1	1.3	0.7	2.6		42.1
Initial Spares												
Total Proc Cost	22.7	6.6	2.2	0.8	0.9	2.2	2.1	1.3	0.7	2.6		42.1
Flyaway U/C												
Wpn Sys Proc U/C												

**DESCRIPTION:** 30kW Generator Set, Skid Mounted, Tactical Quiet Generator, 60Hz and 400Hz

**JUSTIFICATION:** These generators will replace existing overaged generator sets with assets that increase safety and survivability by reducing operating noise levels, reducing weight, provide high altitude electromagnetic pulse protection and increased infrared signature suppression. Some of these generators are components of the power unit/power plant production program and are required for materiel fielding and sustainment support on the following systems:

<b>MISSILE/AIR DEFENSE SYSTEMS:</b> - THAADs - Tow Missile - Patriot Missile - Avenger	<b>SUPPORT SYSTEMS:</b> - Water Purification Systems - Aviation Units - Modular Print System - Medical Systems - Command and Control Centers - Base Support Test Facility - Division XXI	<b>COMMUNICATION SYSTEMS:</b> - Mobile Subscriber Equipment - Radio Relay/Repeater Systems - Satellite Communication Systems - Tactical Operations Centers
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FY99 will fund production and fielding of generator sets with engines that meet EPA requirements. Due to component commonality in the 30kW and 60kW, they are procured under the same contract and produced on the same assembly line. Engineering support costs for the TQG programs are not independent, but must be considered in total to maintain program integrity.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT /Other Support Equipment / 53600426				P-1 Line Item Nomenclature: 30KW TACTICAL QUIET GENERATOR				Weapon System Type:		Date: February 1998	
OPA Cost Elements			FY 96		FY 97		FY 98		FY 99					
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1.	A	Item Hardware 30kW/60Hz - M53200 30kW/400Hz - M50100	504	18	28							1357	90	15
			228	6	38							446	27	17
2.		Engineering Government	250			755			308			275		
3.		Engineering Change Orders	200						50			100		
4.		Acceptance Testing	500			68			565					
5.		Data	504											
TOTAL			2186			823			923			2178		

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT /Other Support Equipment / 53600426		Weapon System Type:		P-1 Line Item Nomenclature: 30KW TACTICAL QUIET GENERATOR						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
30KW/60Hz - M53200 FY96 (First Article) FY99	MCII, Dallas, TX MCII, Dallas, TX	C/FP-R5(1) C/FP-R5(3)	ATCOM CECOM	Aug-96 Jan-99	Feb-98 Jan-00	18 90	28 15	Yes Yes		
30KW/400Hz - M50100 FY96 (First Article) FY99	MCII, Dallas, TX MCII, Dallas, TX	C/FP-R5(1) C/FP-R5(3)	ATCOM CECOM	Aug-96 Jan-99	Feb-98 Jan-00	6 27	38 17	Yes Yes		
<b>REMARKS:</b> PCO change from ATCOM to CECOM is due to BRAC 95 realignment. Unit cost is firm fixed price regardless of quantity.										







Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT /Other Support Equipment / 53600426												60KW TACTICAL QUIET GENERATOR
Program Elements for Code B Items:												P-1 Item Nomenclature:
Code:												Other Related Program Elements:
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty		243	24		213	191	68	99	508		1346	
Gross Cost	17.9	4.5	2.7	0.8	4.4	4.2	2.1	2.8	10.8		51.1	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	17.9	4.5	2.7	0.8	4.4	4.2	2.1	2.8	10.8		51.1	
Initial Spares												
Total Proc Cost	17.9	4.5	2.7	0.8	4.4	4.2	2.1	2.8	10.8		51.1	
Flyaway U/C												
Wpn Sys Proc U/C												
<b>DESCRIPTION:</b> 60kW Generator Set, Skid Mounted, Tactical Quiet Generator, 60Hz and 400Hz												
<b>JUSTIFICATION:</b> These generator sets will replace existing overaged generator sets with assets that will increase safety and survivability by reducing operating noise levels, reducing weight, provide high altitude electromagnetic pulse protection, and increase infrared signal suppression. These generators are components of the power unit/ power plant program, and are required for materiel fielding and sustainment of the following systems:												
<div style="display: flex; justify-content: space-between;"> <div> <b>MISSILE/AIR DEFENSE SYSTEMS:</b>            - THAADs            - Tow Missile            - Patriot Missile            - Avenger         </div> <div> <b>SUPPORT SYSTEMS:</b>            - Water Purification Systems            - Aviation Units            - Modular Print System            - Medical Systems            - Command and Control Centers            - Division XXI         </div> <div> <b>COMMUNICATION SYSTEMS:</b>            - Mobile Subscriber Equipment            - Radio Relay/Repeater Systems            - Satellite Communication Systems            - Tactical Operations Centers         </div> </div>												
FY99 will fund production and fielding of generator sets with engines that meet EPA requirements. Due to component commonality in the 30kW and 60kW, they are procured under the same contract and produced on the same assembly line. Engineering support costs for the TQG programs are not independent, but must be considered in total to maintain program integrity.												



Exhibit P-5. Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT /Other Support Equipment / 53600426				P-1 Line Item Nomenclature: 60KW TACTICAL QUIET GENERATOR				Weapon System Type:		Date: February 1998	
OPA		FY 96		FY 97		FY 98		FY 99					
Cost Elements		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
1. Item Hardware 60kW/60Hz - M53100 60kW/400Hz - M53400		558 252	18 6	31 42							3259 738	178 35	18 21
2. Engineering Government		372			755			308			275		
3. Engineering Change Orders		372						50			100		
4. Acceptance Testing		630			68			565					
5. Data		547											
TOTAL		2731			823			923			4372		

Exhibit P-5a, Budget Procurement History and Planning										Date:
Appropriation / Budget Activity/Serial No:										February 1998
OTHER PROCUREMENT /Other Support Equipment / 53600426										
Weapon System Type:										
P-1 Line Item Nomenclature:										
60KW TACTICAL QUIET GENERATOR										
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
60KW/60Hz - M53400 FY96 (First Article) FY99	MCII, Dallas, TX MCII, Dallas, TX	C/FP-R5(1) C/FP-R5(3)	ATCOM CECOM	Aug-96 Jan-99	Jan-98 Jan-00	18 178	31 18	Yes Yes		
60KW/400Hz - M53100 FY96 (First Article) FY99	MCII, Dallas, TX MCII, Dallas, TX	C/FP-R5(1) C/FP-R5(3)	ATCOM CECOM	Aug-96 Jan-99	Jan-98 Jan-00	6 35	42 21	Yes Yes		

REMARKS: A new contract was awarded to MCII, Dallas, TX, for design and testing on sets with new certified engines and follow-on production.  
 FY96 unit price is for First Article Test Units.  
 PCO change from ATCOM to CECOM is due to BRAC 95 realignment.  
 Unit cost is firm fixed price regardless of quantity.







Exhibit P-40, Budget Item Justification Sheet										Date:		
Appropriation / Budget Activity/Serial No:										February 1998		
OTHER PROCUREMENT /Other Support Equipment / 53600426										P-1 Item Nomenclature:		
Program Elements for Code B Items:										PRODUCTION OF POWER UNITS AND POWER PLANTS		
Code:										Other Related Program Elements:		
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty			57	662	125	1827	1053	1348	602	1253		6927
Gross Cost	71.4	3.1	0.3	8.3	2.1	18.6	11.8	13.3	6.3	13.8		148.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	71.4	3.1	0.3	8.3	2.1	18.6	11.8	13.3	6.3	13.8		148.9
Initial Spares												
Total Proc Cost	71.4	3.1	0.3	8.3	2.1	18.6	11.8	13.3	6.3	13.8		148.9
Flyaway U/C												
Wpn Sys Proc U/C												

**DESCRIPTION:** Depot/Field Manufacturing Program: Trailers are procured from TACOM. Electronic components and raw material are procured through the depot. The integration of TQG's (procured by CECOM) on trailers with the electronic components are defined as power units or power plants. Power units consist of 1 TQG mounted on 1 trailer interface. Power Plants consist of 2 TQG's mounted on 1 or 2 trailer interfaces with a paralleling switchbox installed.

**JUSTIFICATION:** FY99 will continue acquisition and manufacture for power unit/power plant integration with TQG assets designed to provide greater reliability, quieter operation, extended mean-time-between-failure, and replace overaged diesel and gasoline fueled assets. FY99 and FY00 will continue assembly and fielding of 3-60kW TQG to Force Package I and II units. Total package fielding of the following systems are dependent upon these power unit/power plant configurations:

<b>MISSILE/AIR:</b>	<b>SUPPORT:</b>
- THAADs	- Bradley Infantry Fighting Vehicle
- Patriot Missile Systems	- Aviation Systems
- Multiple Launch Rocket Systems	- Computer Systems
- Avenger	- AFATDS
	- Medical Systems
	- Division XXI

<b>COMMUNICATIONS:</b>	
- MSE	
- Radio Relay/Repeater Systems	
- Satellite Communication Systems	
- Battlefield Communications Systems	
- Command and Control Centers	
- Tactical Operations Centers	

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT /Other Support Equipment / 53600426				P-1 Line Item Nomenclature: PRODUCTION OF POWER UNITS AND POWER PLANTS				Weapon System Type:		Date: February 1998	
OPA Cost Elements			FY 96		FY 97		FY 98		FY 99					
ID	CD		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
1. Item Hardware		A												
AN/MJQ-35 - M54100						453	44	10	163	17	10	95	10	10
PU797A - R627						2120	210	10				8021	930	9
PU798A - R591					5	3029	300	10				4276	478	9
PU800 - M521			273	57		253	15	17				11	1	11
PU802 - M500									337	30	11	1748	156	11
PU803 - M543												1109	99	11
PU805 - M509						1010	60	17	348	31	11	168	15	11
PU806 - M510												280	25	11
AN/MJQ37 - R590									428	32	13	601	45	13
AN/MJQ40 - M519						1333	33	40	273	10	27	869	32	27
AN/MJQ41 - M511									141	5	28	1010	36	28
2. Engineering Government						85			275			275		
3. Engineering Change Orders									100			100		
4. First Article Test														
5. Data														
TOTAL			273			8283			2065			18563		

Exhibit P-5a, Budget Procurement History and Planning											Date:	February 1998		
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT /Other Support Equipment / 53600426					Weapon System Type:		P-1 Line Item Nomenclature: PRODUCTION OF POWER UNITS AND POWER PLANTS					RFP Issue Date		
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?		Date Revisn Avail	RFP Issue Date	
AN/MJQ-35 - M541 FY98 FY99 FY99		Tobyhanna Army Depot, PA Tobyhanna Army Depot, PA TBS		WR WR C/FP-R10(1)	ATCOM/TACOM CECOM/TOAD CECOM	Jan-98	Jun-98	17	10	Yes	10	Yes		
						Jan-99	Jun-99	5		10				Yes
						Jan-99	Oct-99	5		10				Yes
PU797 - R627 FY99 FY99		Tobyhanna Army Depot, PA TBS		WR C/FP-R10(1)	CECOM/TOAD CECOM/TOAD	Jan-99	Jun-99	465	9	Yes	9	Yes		
						Jan-99	Oct-99	465		9				Yes
PU798A - R591 FY97 FY99 FY99		Tobyhanna Army Depot, PA Tobyhanna Army Depot, PA TBS		WR WR C/FP-R10(1)	CECOM/TOAD CECOM/TOAD CECOM	Jan-97	Jul-97	300	10	Yes	10	Yes		
						Jan-99	Jun-99	239		9				Yes
						Jan-99	Oct-99	239		9				Yes
PU800 - M521 FY97 FY99		Tobyhanna Army Depot, PA Tobyhanna Army Depot, PA		WR WR	CECOM/TOAD CECOM/TOAD	Mar-97	Jul-97	15	17	Yes	17	Yes		
						Jan-99	Jun-99	1		11				Yes
REMARKS:											Unit cost for production includes: depot procurement of electrical components and raw materials, manufacturing the power units/power plants integration packages, and integration of components and ancillary equipment into the completed PU/PP. A competitive contract will be awarded in Jan 99. FAT is required. This contract will run concurrently with Depot Assembly Orders. FY98 and FY99 will continue assembly and fielding. PCO change from ATCOM to CECOM is due to BRAC 95 realignment. Price increase on AN/MJQ-35 is due to price increase on switchboxes and price increase on trailers. Price increase on PU-797 is due to price increase on trailers. Price decrease on PU/PPs is due to procurement of generator-ready trailers.			



Exhibit P-5a, Budget Procurement History and Planning											
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment				Weapon System Type:		P-1 Line Item Nomenclature: PRODUCTION OF POWER UNITS AND POWER PLANTS					
WBS Cost Elements: Fiscal Years		Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
PU802 - M500 FY97 FY98 FY99 FY99		Tobyhanna Army Depot, PA Tobyhanna Army Depot, PA Tobyhanna Army Depot, PA TBS	WR WR WR C/FP-R10(1)	CECOM/TOAD CECOM/TOAD CECOM/TOAD CECOM	Mar-97 Jan-98 Jan-99 Jan-99	Jul-97 Jun-98 Jun-99 Oct-99	81 30 78 78	16 11 11 11	Yes Yes Yes Yes		
PU803 - M543 FY97 FY99 FY99		Tobyhanna Army Depot, PA Tobyhanna Army Depot, PA TBS	WR WR C/FP-R10(1)	CECOM/TOAD CECOM/TOAD CECOM/TOAD	Mar-97 Jan-99 Jan-99	Jul-97 Jun-99 Oct-99	58 50 49	16 11 11	Yes Yes Yes		
PU805 - M509 FY97 FY98 FY99		Tobyhanna Army Depot Tobyhanna Army Depot Tobyhanna Army Depot	WR WR WR	CECOM/TOAD CECOM/TOAD CECOM/TOAD	Mar-97 Jan-98 Jan-99	Jul-97 Jun-98 Jun-99	60 31 15	17 11 11	Yes Yes Yes		
PU806 - M510 FY99 FY99		Tobyhanna Army Depot TBS	WR C/FP-R10(1)	CECOM/TOAD CECOM	Jan-99 Jan-99	Jun-99 Oct-99	15 10	11 11	Yes Yes		
REMARKS: Unit cost for production includes: depot procurement of electrical components and raw materials, manufacturing the power units/power plants integration packages, and integration of components and ancillary equipment into the completed PU/PP. A competitive contract will be awarded in Jan 99. FAT is required. This contract will run concurrently with Depot Assembly Orders. FY98 and FY99 will continue assembly and fielding. PCO change from ATCOM to CECOM is due to BRAC 95 realignment. Price increase on AN/MJQ-35 is due to price increase on switchboxes and price increase on trailers. Price increase on PU-797 is due to price increase on trailers. Price decrease on PU/PPs is due to due procurement of generator-ready trailers.											

Exhibit P-5a, Budget Procurement History and Planning												
Appropriation / Budget Activity/Serial No:				Weapon System Type:		Date: February 1998						
OTHER PROCUREMENT / 3 / Other Support Equipment				P-1 Line Item Nomenclature:								
WBS Cost Elements:				PRODUCTION OF POWER UNITS AND POWER PLANTS								
Fiscal Years				Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
AN/MJQ37 - R590				WR WR C/FP-R10(1)	CECOM/TOAD CECOM/TOAD CECOM	Jan-98 Jan-99 Jan-99	Jun-98 Jun-99 Oct-99	32 22 23	13 13 13	Yes Yes Yes		
FY98												
FY99												
FY99												
AN/MJQ40 - M519				WR WR WR C/FP-R10(1)	CECOM/TOAD CECOM/TOAD CECOM/TOAD CECOM	Mar-97 Jan-98 Jan-99 Jan-99	Jul-97 Jun-98 Jun-99 Oct-99	33 10 16 16	40 27 27 27	Yes Yes Yes Yes		
FY97												
FY98												
FY99												
FY99				WR WR C/FP-R10(1)	CECOM/TOAD CECOM/TOAD CECOM/TOAD	Jan-98 Jan-99 Jan-99	Jun-98 Jun-99 Oct-99	5 18 18	28 28 28	Yes Yes Yes		
AN/MJQ41 - M511												
FY98												
FY99												
FY99												
REMARKS:				Unit cost for production includes: depot procurement of electrical components and raw materials, manufacturing the power units/power plants integration packages, and integration of components and ancillary equipment into the completed PU/PP. A competitive contract will be awarded in Jan 99. FAT is required. This contract will run concurrently with Depot Assembly Orders. FY98 and FY99 will continue assembly and fielding. PCO change from ATCOM to CECOM is due to BRAC 95 realignment. Price increase on AN/MJQ-35 is due to price increase on switchboxes and price increase on trailers. Price increase on PU-797 is due to price increase on trailers. Price decrease on PU/PPs is due to procurement of generator-ready trailers.								







Exhibit P-40, Budget Item Justification Sheet											Date:	February 1998
Appropriation / Budget Activity/Serial No:				P-1 Item Nomenclature:								
OTHER PROCUREMENT / Other Support Equipment / 53600426				DISTRIBUTION ILLUMINATION SYSTEM ELECTRICAL								
Program Elements for Code B Items:				Other Related Program Elements:								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	40.5	1.6	0.0	0.4	0.0	0.5	0.0	0.0	0.0	0.0		42.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	40.5	1.6	0.0	0.4	0.0	0.5	0.0	0.0	0.0	0.0		42.9
Initial Spares												
Total Proc Cost	40.5	1.6	0.0	0.4	0.0	0.5	0.0	0.0	0.0	0.0		42.9
Flyaway U/C												
Won Sys Proc U/C												
<p>DESCRIPTION: Distribution Illumination System Electrical is used to redistribute power from either a single generator or larger feeder system to multiple power users.</p> <p>JUSTIFICATION: Will be fielded in conjunction with Tactical Quiet Generators to support numerous communication, weapons, and medical systems. Distribution systems are planned to reduce the number of generator sets required by the Army by distributing power from one generator to multiple power requirements. Systems supported by this item include: Joint Tactical Fusion, Satellite Communications, Deployable Medical System, and Tactical Operation Center.</p> <p>Level 3 Management of this item transfers to CECOM in FY99. CECOM will budget for this item after FY99</p> <p>DISE 60 AMP (R45200): FY97: \$.283M (60 ea.); FY99: \$.129M (22 ea.)  DISE 40 AMP (R45300): FY97: \$.032M (5 ea.); FY99: \$.107M (22 ea.)  DISE 100 AMP (R45400): FY97: \$.035M (6 ea.); FY99: \$.094M (16 ea.)  FEEDER 200 AMP (R45500): FY97: None; FY99: \$.070 (8 ea.)  KIT RECEPTABLE (R62800): FY97: None; FY99: \$.097M (50 ea.)</p> <p>TOTAL: FY97: \$.350M (71 ea.); FY99: \$.497M (118 ea.)</p>												

Exhibit P-40, Budget Item Justification Sheet											Date:	February 1998
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature:										
OTHER PROCUREMENT / Other Support Equipment / 53600426		READINESS INCENTIVES										
Program Elements for Code B Items:		Other Related Program Elements:										
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	12.3	2.6	1.2	2.4	1.3	2.0	1.2	1.4	1.7	1.6		27.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	12.3	2.6	1.2	2.4	1.3	2.0	1.2	1.4	1.7	1.6		27.6
Initial Spares												
Total Proc Cost	12.3	2.6	1.2	2.4	1.3	2.0	1.2	1.4	1.7	1.6		27.6
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: Supports numerous generator improvement programs: Sample Data Collection, Contract/Fielding Support, and Generator System Assessments, production engineering and various testing on generator systems that are not separately authorized.

Sample Data Collection: \$.100M in FY96; \$.180 in FY97; \$.070 in FY99  
 Contract/Fielding Support: \$.591M in FY96; \$.1.9M in FY97; \$.1.2M in FY98; \$.1.432M in FY99  
 System Assessment: \$.493M in FY96; \$.350M in FY97; \$.100M in FY98; \$.490M in FY99

TOTALS: \$1.184M in FY96; \$2.430M in FY97; \$1.300M in FY98; \$1.992M in FY99

Exhibit P-40, Budget Item Justification Sheet											Date:	
Appropriation / Budget Activity/Serial No.											February 1998	
OTHER PROCUREMENT / 3 / Other Support Equipment											P-1 Item Nomenclature:	
Program Elements for Code B Items:											TRUCK, FORK LIFT, DE, PT, RT, 50000 LB (M41200)	
Code:											Other Related Program Elements:	
0604804A DH14											B	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	307		25			101	80	112	93	90		808
Gross Cost	83.6	0.0	10.6	0.0	0.0	20.6	34.8	48.6	58.3	58.3	0.0	314.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	83.6	0.0	10.6	0.0	0.0	20.6	34.8	48.6	58.3	58.3	0.0	314.8
Initial Spares												
Total Proc Cost	83.6	0.0	10.6	0.0	0.0	20.6	34.8	48.6	58.3	58.3	0.0	314.8
Flyaway U/C												
Wpn Sys Proc U/C												

**DESCRIPTION:** The Rough Terrain Container Handler (RTCH) provides a capability of handling the 8' wide family of International Standardization Organization (ISO) 20' and 40' long containers weighing up to 50,000 pounds. It is a rough terrain truck designed for operating on soft soil conditions such as unprepared beaches. The RTCH is four wheel drive and capable of fording 5' of saltwater in Joint Logistics Over The Shore operations. The RTCH is a modified commercial design.

Code B Data: D604804A, DH14 RDTE; Performance Specification Date Jan 98; DTE/IOTE/OTE/TDP are all N/A as item is non developmental; TC Generic (Alt Standard scheduled for April 00; model number to be determined; no test results available as acquisition support by market survey, no testing.)

**JUSTIFICATION:** The FY 99 funds begin acquisition of a five year procurement buy. The Army has an increasing need for a state-of-the-art, rough terrain container handler with 50,000 pound lift capacity. Currently, the RTCH supports worldwide deployments at theatre level. The Defense Planning Guidance and Army's Battlefield Distribution System plan call for expanded container handling mission forward into the Divisions. This dramatically elevates the importance of the RTCH. Equally important is its use in critical general support operations, depots, cargo handling storage, and shipping operations. An estimated 500 containers daily will arrive at sea, rail, or air debarkation ports during deployments (includes peacekeeping, peace enforcement, humanitarian assistance, and wartime missions). The current RTCH fleet (282) will all be over aged in FY 98. This factor, coupled with an increase in Army Authorization Objective (AAO) from 346 to 783, increased authorizations in the new Improved Cargo Handling Operations (ICHO) and Direct Support (DS) Supply Units Table of Organizations and Equipment (TOE) requirements, drive this reprourement request.



Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment		P-1 Line Item Nomenclature: TRUCK, FORK LIFT, DE, PT, RT, 50000 LB (M41200)		Weapon System Type:		Date: February 1998		
ID	OPA Cost Elements	FY 96		FY 97		FY 98		FY 99		
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
CD										
B	1. Hardware 2. Logistics Data Deliverables a. Publication b. Other 3. Test Support From Contractor 4. Testing (Production Qualification Test) -Government (ATC) 5. Engineering In-House 6. Engineering Change Order  Quantities are the most current and may not match P1/P40	10300	25	412				19755	45	439
		51						100		
		4						37		
		144						150		
		88						387		
								115		
								44		
		10587						20588		

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998
Appropriation / Budget Activity/Serial No:		Weapon System Type:		P-1 Line Item Nomenclature:							
OTHER PROCUREMENT / 3 / Other Support Equipment				TRUCK, FORK LIFT, DE, PT, RT, 50000 LB (M41200)							
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date	
Fiscal Years											
1. Hardware											
FY 96	CATERPILLAR	C/FP/OPT	DSCC	Mar-97	Jun-97	25	412	YES	N/A		
FY 99	TBS	C/FP REQ 5(1)	TACOM	Mar-99	Sep-99	45	439	YES	Jan 98	Feb-99	
<b>REMARKS:</b> FY 99 - The current RTCH is based on 1970's technology and commercial practices. The 1997 market survey indicated that there is no commercially available vehicle that meets the users requirements, including the current Caterpillar 988F RTCH. However, we can meet the user's requirements by combining available commercial capabilities into one vehicle. The RDTE contract will be used to verify that the assemblage of commercial items meet the users requirements. FY 99 production contract will be awarded to one of the RDTE contractors.											







Exhibit P-40, Budget Item Justification Sheet											Date:
Appropriation / Budget Activity/Serial No:											February 1998
OTHER PROCUREMENT / 3 / Other Support Equipment											P-1 Item Nomenclature:
Program Elements for Code B Items:											ALL TERRAIN LIFTING ARTICULATING SYSTEM (M41800)
Code:											Other Related Program Elements:
A											
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty		130	168	34	47	105	105	119	403		1111
Gross Cost	0.0	13.6	16.5	3.5	15.2	10.3	15.5	11.6	46.9	0.0	133.1
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc (P-1)	0.0	13.6	16.5	3.5	15.2	10.3	15.5	11.6	46.9	0.0	133.1
Initial Spares											
Total Proc Cost	0.0	13.6	16.5	3.5	15.2	10.3	15.5	11.6	46.9	0.0	133.1
Flyaway U/C											
Wpn Sys Proc U/C											

DESCRIPTION: The All Terrain Lifting Articulating System (ATLAS) is a rough terrain forklift which has the same mobility and speed as the Army's current 6,000 lb (6K) variable reach rough terrain forklift and can perform the functions required of the current Army standard 10,000 lb (10K) rough terrain forklifts. The vehicles have drive on - drive off capability for C-130 deployability and variable reach capability for stuffing/unstuffing 20 foot International Standardization Organization (ISO) containers.

JUSTIFICATION: FY 99 funds continue acquisition of Force Package 1 requirements. Current 6,000 and 10,000 lb rough terrain forklifts procured during 1967-1980 and assigned to Quartermaster Units require replacement due to over age and inability to accomplish new mission requirements. They are not capable of stuffing and unstuffing 20 foot International Standardization Organization (ISO) containers. The current 10,000 lb forklift requires major disassembly and use of a special kit for air transport by C-130 and C-17 aircraft. The ATLAS operational concept requires use throughout the theatre to expedite logistics support functions. All classes of supply will be handled.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment			P-1 Line Item Nomenclature: ALL TERRAIN LIFTING ARTICULATING SYSTEM (M41800)			Weapon System Type:			Date: February 1998		
OPA Cost Elements			FY 96		FY 97		FY 98		FY 99					
ID	CD		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
A		1. Hardware	12760	130	98	15811	163	97	3333	33	101	14948	148	101
		2. Contractor Support for Testing	119											
		3. Testing (Production Verification Test)												
		-Government (ATC)	547			463								
		4. Refurbishment of Test Vehicles	110			115			112			115		
		5. Engineering In-House	104			130			26			165		
		6. Engineering Change Orders												
			13640			16519			3471			15228		

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No:		Weapon System Type:			P-1 Line Item Nomenclature:					
OTHER PROCUREMENT / 3 / Other Support Equipment					ALL TERRAIN LIFTING ARTICULATING SYSTEM (M41800)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
1. Hardware										
FY 96	TRAK INTERNATIONAL PORT WASHINGTON, WI	CFP REQ 4(1)	TACOM	Aug-96	Dec-96	130	98	YES	N/A	
FY 97	TRAK INTERNATIONAL PORT WASHINGTON, WI	CFP REQ 4(2)	TACOM	Mar-97	Aug-97	163	97	YES	N/A	
FY 98	TRAK INTERNATIONAL PORT WASHINGTON, WI	CFP REQ 4(3)	TACOM	Jan-98	Jun-98	33	101	YES	N/A	
FY 99	TRAK INTERNATIONAL PORT WASHINGTON, WI	CFP REQ 4(4)	TACOM	Jan-99	Jun-99	148	101	YES	N/A	
<b>REMARKS:</b> 1. FY 96 through FY 99 are options to contract awarded in May 95 which is a competitive Firm Fixed Price (FFP) requirements type contract. FY 96 price includes non-recurring cost and is based on minimum initial delivery order of 112 vehicles. FY 97 unit cost is reduced as contractor was only authorized to amortize non-recurring cost over the first program year. Unit prices in 98 and 99 are the same, because contract prices are based on range quantities, with larger quantity receiving a price break advantage.										









Exhibit P-40, Budget Item Justification Sheet											Date:	
Appropriation / Budget Activity/Serial No:											February 1998	
OTHER PROCUREMENT / 3 / Other Support Equipment											P-1 Item Nomenclature:	
Program Elements for Code B Items:											ROUGH TERRAIN CONTAINER CRANE (X00900)	
Code: B											Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	254					30	25	19				328
Gross Cost	51.7	0.0	0.0	0.0	0.0	13.6	11.2	8.6	0.1	0.2	0.0	85.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	51.7	0.0	0.0	0.0	0.0	13.6	11.2	8.6	0.1	0.2	0.0	85.4
Initial Spares												
Total Proc Cost	51.7	0.0	0.0	0.0	0.0	13.6	11.2	8.6	0.1	0.2	0.0	85.4
Flwyway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This item is a Rough Terrain Container Crane (RTCC) capable of handling 20 foot and 40 foot containers, wheel mounted with 4 wheel drive steering, diesel engine, and hydraulically operated boom. The super structure has a telescopic boom with 360 degree rotation capability. It will be used by Transportation Cargo Transfer Companies, Transportation Terminal Service Companies, and General Support Ammunition Companies, to transfer containers from the ground to waiting transportation, or from one mode of transportation to another.

Code B Data: D604804A, DH14 RDTE; Performance Specification Date Dec 98; DTE/IOTE/OTE/TDP are all N/A as item is non developmental; TC Generic (Alt Standard scheduled for Sep 98; model number to be determined; no test results available as acquisition support by market survey, no testing.)

JUSTIFICATION: FY 99 funds, the first of a three year procurement that will buy 72 vehicles to support activation of the new Improved Cargo Handling Operations. The Defense Planning Guidance and Army's Battlefield Distribution System plan call for expanded container crane handling mission into the Divisions. The crane will be used for general support operations, depot operations, cargo handling storage, and shipping operations. It will be used for sea, rail, or air debarkation ports during deployments (including peacekeeping, peace enforcement, humanitarian assistance, and wartime missions). Increased authorizations for new Improved Cargo Handling Operations (ICHO) and Direct Support (DS) Supply Units Table of Organizations and Equipment (TOE) requirements, have increased the Army's Authorization Objective (AAO) from 255 to 354 and drives this procurement request. These additional vehicles will fill Force Package I and II shortages.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment				P-1 Line Item Nomenclature: ROUGH TERRAIN CONTAINER CRANE (X00900)				Weapon System Type:		Date: February 1998	
OPA Cost Elements	ID	FY 96		FY 97		FY 98		FY 99		TotalCost \$000	Qty Each	UnitCost \$000	UnitCost \$000
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each				
1. Hardware	B									12586	29		434
2. Contractor Support for Testing										80			
3. Logistics Data Deliverables													
a. Publications										230			
b. Other										34			
4. Testing-Government (ATC)										410			
5. Engineering In-House									115				
6. Engineering Change Order									160				
Quantities shown are most current and may differ from P1/P40													13615

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment			Weapon System Type:		P-1 Line Item Nomenclature: ROUGH TERRAIN CONTAINER CRANE (X00900)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
1. Hardware FY 99	TBS	CFP- REQ 4(1)	TACOM	Mar-99	Nov-99	29	434	Yes	Mar 98	Oct-98
REMARKS:										







Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 3 / Other Support Equipment												ITEMS LESS THAN \$2.0M (MHE) (ML5365)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code: See P-5													
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	142.7	4.8	2.8	2.0	1.7	1.7	1.8	1.8	1.9	2.8	0.0	164.0	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	142.7	4.8	2.8	2.0	1.7	1.7	1.8	1.8	1.9	2.8	0.0	164.0	
Initial Spares													
Total Proc Cost	142.7	4.8	2.8	2.0	1.7	1.7	1.8	1.8	1.9	2.8	0.0	164.0	
Flyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:** This program covers the various types of Material Handling Equipment (MHE) where the total acquisition cost for each line item is below \$2,000,000 (total expended program per year).

Forklift, 6K, Solid Rubber Tire, M482 - Code B Data: D604804A, DH14 RDTE; DTE/IOTE/OTE/TDP are all N/A as item is non developmental; TC Generic; model number to be determined; no test results available as acquisition support by market survey, no testing.

**JUSTIFICATION:** FY 99 funding is required to fill existing backorders and high priority shortages in Army Units, Army Materiel Command (AMC) maintenance depots and ammunition storage facilities. This critical support equipment is needed for movement of materials, supplies, and equipment and is critical towards insuring, readiness and fleet mobilization of U.S. Armed Forces. The FY 99 program funding will be utilized to procure the M482 - 6k lb Forklift. This system is being procured to replace overaged, high usage vehicles and fill priority shortages. The M482 is essential to and is utilized in garrison, depot, ammunition plants and miscellaneous supply/material transport operations. This system is considered essential in peacetime and wartime operations.

Exhibit P-5. Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment			P-1 Line Item Nomenclature: ITEMS LESS THAN \$2.0M (MHE) (ML5365)			Weapon System Type:			Date: February 1998		
OPA Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
1. Forklift, 6K, Solid Rubber Tire, M482	B		845	13	65	1999	30	67	953	23	40	1672	39	43
2. Crane, Truck Warehouse M469	A		1909	107	18				730	10	73			
3. Tractor Warehouse, 4K M487	A													
All items coded A or B above are non-developmental items. As such, they are coded "A" if type classified "standard" and currently being fielded; coded "B" if they are type classified "generic" and have not yet achieved material release (Final approval for service use).			2754			1999			1683			1672		
TOTAL														

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 3 / Other Support Equipment												COMBAT TRAINING CENTERS SUPPORT (MA6600)	
Program Elements for Code B Items:												Other Related Program Elements:	
654715												OMA- 115013	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	211.2	30.1	30.0	26.6	26.1	47.4	41.6	54.1	58.1	25.6	0.0	550.8	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	211.2	30.1	30.0	26.6	26.1	47.4	41.6	54.1	58.1	25.6	0.0	550.8	
Initial Spares													
Total Proc Cost	211.2	30.1	30.0	26.6	26.1	47.4	41.6	54.1	58.1	25.6	0.0	550.8	
Flyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:**

The Army continues with the implementation of the strategy in the Combat Training Center (CTC) Master Plan. CTC incorporates the following programs. The National Training Center (NTC), the Combat Maneuver Training Center (CMTC), and the Joint Readiness Training Center (JRTC). Instrumentation systems are being procured and upgraded under this program for the three maneuver training centers to provide the capability to capture and process the actual training data and provide instructive After Action Reviews (AARs). This provides valuable feedback to the unit Commander and soldiers training at the centers which can be carried back to the unit and used for follow-on sustainment training. The CTC's are the Army's premiere training area. Their effectiveness was demonstrated by our success in Desert Storm. Overall, the CTC experience provides realistic combat training with long-term training benefits, thereby, increasing the unit's combat readiness.

**JUSTIFICATION:**

The CTC strategy for FY99 provides the Army with a comprehensive mechanism to conduct training from the individual level to the Corps Commander and Battle Staff, in scenarios that will realistically replicate combat from low to high intensity. It is essential that our investment in the CTC's be maintained by assuring that the training provided represents current doctrine and weapon capability. The FY99 funds support the: (1) Opposing Forces Surrogate Vehicle (OSV) which will provide needed realistic simulation of the BMP-2 Infantry Soviet Armored Fighting Vehicle in the CTC training environment, resulting in crucial improvement in training (vehicles procured will support part of the total requirement of 236 vehicles), (2) JRTC Military Operations in Urban Terrain (MOUT) by initiating procurement of the Phase II objective, and (3) procurement of three Opposing Forces Surrogate Tracked Vehicles (OSTV) required to provide realistic simulation of the threat from enemy tracked vehicles in the CTC training environment.

Exhibit P-5. Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment			P-1 Line Item Nomenclature: COMBAT TRAINING CENTERS SUPPORT (MA6600)			Weapon System Type:			Date: February 1998		
OPA Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
	A	CMTC Instrumentation System Support	387			239								
	A	CTC Integration				50								
	A	JRTC Instrumentation System (JRTC-IS)	7568			5850								
	A	JRTC MOUT I	4191											
	B	JRTC MOUT II				15302			8931			6329		
	A	Range Data Measurement Subsystem (RDMS)	3170			170								
	A	CTC-IS/AGES II	3854											
	A	CTC Opposing Forces Surrogate Vehicle (OSV) at NTC/JRTC	4530			4899			17170			30456		
	B	CTC Opposing Forces Surrogate Tracked Vehicle (OSTV) at NTC/JRTC/CMTC										10610		
	A	Force XXI Digitization	1927			107								
	A	AWE Integration	4350											
		CMTC - Hohenfels, Germany JRTC - Ft. Polk, LA NTC - Ft. Irwin, CA												
		<b>TOTAL</b>	<b>29977</b>			<b>26617</b>			<b>26101</b>			<b>47395</b>		

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT /Other Support Equipment/ 53701780												JRTC Instrumentation System (JRTC-IS) (MA6601)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	0.0	0.0	7.6	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.5	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	0.0	7.6	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.5	
Initial Spares													
Total Proc Cost	0.0	0.0	7.6	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.5	
Flyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:**

The CTC strategy provides the Army with a comprehensive mechanism to conduct training from the individual level to the Corps Commander and Battle Staff, in scenarios that will realistically replicate combat from low to high intensity. The JRTC is designed to support training of the Army light infantry task forces (i.e., focuses on the individual soldier and dismounted small unit performances). The Army's combined arms training strategy allows for the use of simulations to support training. The JRTC-IS will enable the Observer/Controller (O/C) to display selected segments of the battle, scored data, and reports during the After Action Review (AAR). The Position Location (PL) of selected friendly and Opposing Force participants will be tracked via the JRTC-IS. Position Location will give an accurate picture of where key leaders, units, and equipment were located in the course of a tactical engagement to support the development of training feedback for the AAR.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT /Other Support Equipment / 53701780				P-1 Line Item Nomenclature: JRTC Instrumentation System (JRTC-IS) (MA6601)				Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
A. JRTC Instrumentation System (JRTC-IS)													
JRTC-IS In-House Gov't Engineering		482			395								
JRTC-IS System Support		7018			4904								
JRTC-IS ECPs		68			148								
Software Engineering Environment (SEE)					297								
Other Gov't Agencies Engineering Support					106								
TOTAL		7568			5850								

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998										
Appropriation / Budget Activity/Serial No:		Weapon System Type:			P-1 Line Item Nomenclature:																
OTHER PROCUREMENT /Other Support Equipment / 53701780					Joint Instrumentation System (JRTC-IS) (MA6601)																
WBS Cost Elements:		Contractor and Location		Contract Method and Type		Location of PCO		Award Date		Date of First Delivery		QTY Each		Unit Cost \$000		Specs Avail Now?		Date Reven Avail		RFP Issue Date	
Fiscal Years																					
A. JRTC Instrumentation System (JRTC-IS)		CUBIC DEFENSE, San Diego, CA		C/CPIF		NAWC, Orlando, FL		Jun-93		Jul-97		1		16601		Yes					
FY93		CUBIC DEFENSE, San Diego, CA		Option		NAWC, Orlando, FL		Dec-93		Jul-97		1		15686		Yes					
FY94																					
<b>REMARKS:</b> Naval Air Warfare Center (NAWC) Date of delivery slipped from September 1996 to July 97 due to delay in system integration completion and system testing. Delivery Sites - Ft Polk, LA Ready for Training Date - 4QFY97																					





Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT /Other Support Equipment / 53701780												JRTC MOUT II Phase II (MA6601)	
Program Elements for Code B Items:												OMA - 115013	
Code: B												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	0.0	0.0	0.0	15.3	8.9	6.3	4.2	3.6	0.0	0.0	0.0	38.3	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	0.0	0.0	15.3	8.9	6.3	4.2	3.6	0.0	0.0	0.0	38.3	
Initial Spares													
Total Proc Cost	0.0	0.0	0.0	15.3	8.9	6.3	4.2	3.6	0.0	0.0	0.0	38.3	
Flyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:**  
 Joint Readiness Training Center (JRTC) Military Operations in Urban Terrain (MOUT) provides an instrumentation system (IS) to satisfy a unique requirement for crucial training readiness in an urban terrain environment. The JRTC MOUT complex consists of a series of villages and tactical objective sites, with the centerpiece being a 29 building enclave replicating a third world town. System capabilities include: conduct of live fire exercises; assessment of company through team level operations; monitoring of individual player movements through the complex; real-time data capture for analysis and After Action Reviews (AARs); reaction time/hit/miss reporting from remote location control targets; and centralized visual observation and control of facilities.

**JUSTIFICATION:**  
 FY99 funding will continue the procurement of the Phase II objective: JRTC MOUT-IS capabilities that will support the automated data collection and feedback, command and control of the MOUT portion of exercises and interactive target systems supporting MOUT scenario play. Procurement funds will buy/install Non-Developmental Items (NDI). Research and Development funds will develop software for an expanded number of audio visual data collectors, advanced targets, and indoor position locaters. Operational Test and Evaluation planned for May 98.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT /Other Support Equipment / 53701780			P-1 Line Item Nomenclature: JRTC MOUT II Phase II (MA6601)			Weapon System Type:			Date: February 1998		
OPA Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
A. TYPE I BLDG	B					456	2	228						
B. TYPE II BLDG	B					1292	4	323	856	4	214	225	1	225
C. TYPE III BLDG	B					1104	3	368	376	1	376	778	2	389
D. TYPE IV BLDG	B					864	1	864						
E. TYPE V BLDG	B					1786	2	893	3262	2	1631	1303	1	1303
F. TYPE VI BLDG	B					1709	1	1709	1560	1	1560			
G. Low Light Cameras	B					3572	19	188						
H. Exterior Speakers	B								110	20	6			
I. Advanced Target System	B											1449	149	10
J. Audio/Visual Instrumentation Support						387			529			862		
K. Interim Contractor Logistics Support						1321			1167			1040		
L. Engineering Changes						2086			374					
M. Contractor Engineering Support						405			310			268		
N. Other Gov't Agency Support						161			100			100		
O. In-House Engineering Support						155			280			280		
P. Technical Documentation						4			7			24		
<b>TOTAL</b>			<b>15302</b>						<b>8931</b>			<b>6329</b>		

Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT /Other Support Equipment / 53701780				Weapon System Type:		P-1 Line Item Nomenclature:			
WBS Cost Elements: Fiscal Years				Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000
A. TYPE I BLDG FY 97				FFP	NAWC, Orlando, FL	Jul-97	Jan-98	2	228
B. TYPE II BLDG FY 97				FFP	NAWC, Orlando, FL	Jul-97	Jan-98	4	323
FY 98				Option		Jan-98	Jun-98	4	214
FY 99				Option		Dec-98	May-99	1	225
C. TYPE III BLDG FY 97				FFP	NAWC, Orlando, FL	Jul-97	Jan-98	3	368
FY 98				Option		Jan-98	Jun-98	1	376
FY 99				Option		Dec-98	May-99	2	389
D. TYPE IV BLDG FY 97				FFP	NAWC, Orlando, FL	Jul-97	Jan-98	1	864
E. TYPE V BLDG FY 97				FFP	NAWC, Orlando, FL	Jul-97	Jan-98	2	893
FY 98				Option		Jan-98	Jun-98	2	1631
FY 99				Option		Dec-98	May-99	1	1303
F. TYPE VI BLDG FY 97				FFP	NAWC, Orlando, FL	Jul-97	Jan-98	1	1709
FY 98				Option		Jan-98	Jun-98	1	1560
G. Low Light Cameras FY 97				FFP	NAWC, Orlando, FL	Jul-97	Jan-98	19	188
REMARKS: Naval Air Warfare Center (NAWC) All FY98/99 contracts will be options to original FY97 contract. Delivery Site - Ft Polk, LA Ready for Training Date - 2QFY98									

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT /Other Support Equipment / 53701780		Weapon System Type:		P-1 Line Item Nomenclature: JRTC MOUT II Phase II (MA6601)						
Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revis Avail	RFP Issue Date
WBS Cost Elements: Fiscal Years										
H. Exterior Speakers FY 98		SIGCOM, Greensboro, NC	Option	NAWC, Orlando, FL	Jan-98	Jun-98	20	6	Yes	
I. Advanced Target System FY 99		TBS	Option	TBS	Dec-98	Apr-99	149	10	Yes	
<b>REMARKS:</b> Naval Air Warfare Center (NAWC) All FY98/99 contracts will be options to original FY97 contract. Delivery Site - Ft Polk, LA Ready for Training Date - 2QFY98										

REMARKS: Naval Air Warfare Center (NAWC)  
All FY98/99 contracts will be options to original FY97 contract.  
Delivery Site - Ft Polk, LA  
Ready for Training Date - 2QFY98





Exhibit P-40, Budget Item Justification Sheet													Date:
Appropriation / Budget Activity/Serial No:													February 1998
OTHER PROCUREMENT / Other Support Equipment / 53701780													P-1 Item Nomenclature:
Program Elements for Code B Items:													CTC Opposing Forces Surrogate Vehicles (OSV) (MA6601)
Code:													Other Related Program Elements:
A													
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog		
Proc Qty													
Gross Cost	0.0	0.0	4.5	4.9	17.2	26.5	23.8	31.9	0.0	0.0	139.3		
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	0.0	4.5	4.9	17.2	26.5	23.8	31.9	0.0	0.0	139.3		
Initial Spares													
Total Proc Cost	0.0	0.0	4.5	4.9	17.2	26.5	23.8	31.9	0.0	0.0	139.3		
Flyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:**  
The Opposing Forces Surrogate Vehicle (OSV) will be used by the Opposing Forces (OPFOR) component to simulate an armored fighting vehicle in maneuver exercises. The objectives of the Operational Requirements Document will be accomplished by modifying the M113A3 full-tracked Armored Personnel Carrier (APC). These modifications, which include the addition of a turret and related Visual Modifications (VISMOS), will provide the key recognition signatures of the BMP-2. The training vehicle will include both visual and Multiple Integrated Laser Engagement System (MILES) representation of the salient characteristics of the BMP-2 on-board weapon system. The vehicle will not have go-to-war capability. It's use will be limited to the unique training environment of a CTC.

**JUSTIFICATION:**  
Through FY99, 110 vehicles will be procured to support the total NTC requirement of 190 vehicles. The OSV provides required realistic simulation of the BMP-2 Infantry Soviet Armored Fighting Vehicle in the CTC training environment, resulting in crucial improvement in training. The expense of the per mile operating cost for the OSV is a 40% savings over the current outdated equipment (M551) simulating the BMP-2. The OSV meets the requirements for soldier safety and functional skills sustainment for the OPFOR (U.S. Soldier) role player.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT /Other Support Equipment / 53701780		P-1 Line Item Nomenclature: CTC Opposing Forces Surrogate Vehicles (OSV) (MA6601)		Weapon System Type:		Date: February 1998					
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000			
A. NTC Vehicle	A	2250	5	450	3996	10	400	12784	34	376	23873	61	391
B. SAWE/MILES II Kits								706	37	19	1903	111	17
C. RISE Kits*											3324	17	196
D. Publications		495						650					
E. Production Testing		200						150					
F. Other Gov't Agencies Engineering Spt		1036			336			766			703		
G. In-House Gov't Engineering Support		90			239			135			347		
H. Engineering Change Proposals		459			328			800			306		
I. Refurbish Test Kits								300					
J. Contractor Engineering Support					4899			879					
TOTAL		4530			4899			17170			30456		
*RISE = Reliability, Improvement of Selected Equipment													



# Exhibit P-5a, Budget Procurement History and Planning

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / Other Support Equipment / 53701780						Weapon System Type:				P-1 Line Item Nomenclature: CTC Opposing Forces Surrogate Vehicles (OSV) (MA6601)				Date: February 1998							
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type		Location of PCO		Award Date		Date of First Delivery		QTY Each		Unit Cost \$000		Specs Avail Now?		Date Revis Avail		RFP Issue Date	
A. NTC Vehicle		Anniston Army Depot, AL		C/FFP		NAWC, Orlando, FL		Feb-96		Nov-97		5		450		Yes					
FY 96				Option				Nov-96		Nov-97		10		400		Yes					
FY 97				Option				Feb-98		Dec-98		34		376		Yes					
FY 98				Option				Nov-98		Dec-99		61		391		Yes					
FY 99																					
B. SAWE/MILES II Kits		Lockheed/Martin, Panama, CA		Option		NAWC, Orlando, FL		Feb-98		Nov-98		37		19		Yes					
FY 98								Nov-98		Aug-99		111		17		Yes					
FY 99																					
C. RISE Kits*		Anniston Army Depot, AL		Option		NAWC, Orlando, FL		Nov-98		Dec-99		17		196		Yes					
FY 99																					
<b>REMARKS:</b> Naval Air Warfare Center (NAWC) Delivery Site - Ft Irwin Ready for Training Date - 1QFY98																					







Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT /Other Support Equipment / 53701780												CTC Opposing Forces Tracked Vehicles (OSTV) (MA6601)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code: B													
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	0.0	0.0	0.0	0.0	0.0	10.6	10.9	18.8	7.5	0.0	0.0	47.8	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	0.0	0.0	0.0	0.0	10.6	10.9	18.8	7.5	0.0	0.0	47.8	
Initial Spares													
Total Proc Cost	0.0	0.0	0.0	0.0	0.0	10.6	10.9	18.8	7.5	0.0	0.0	47.8	
Flyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:**  
The Opposing Forces Surrogate Tracked Vehicles (OSTV) will be used by the Opposing Forces (OPFOR) component at the three Combat Training Centers (CTCs) to simulate enemy Main Battle Tank (MBT) maneuver exercises. The objectives of the Operational Requirements Document will be accomplished by vehicles that will include both visual and Multiple Integrated Laser System (MILES) representation of the salient characteristics of the threat Main Battle Tank (MBT). The vehicles will not have go-to-war capability. Use of the vehicles will be limited to the unique training environment of the CTC's.

**JUSTIFICATION:**  
Through FY99, nine OSTVs will be procured out of 51 required. The OSTVs provide required realistic simulation of the threat from enemy tracked vehicles in the CTC training environment, resulting in improved training readiness. Viable OPFOR representation is required to stress the BLUEFOR (unit trained) on the CTC battlefield and enable a balanced evaluation. OSTV RDTE funds are for developmental efforts on the OPFOR Main Battle Tank, the planned Development Test and Evaluation and estimated date of approval for service use (NDI) is November 98. Milestone III is first quarter FY99.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT /Other Support Equipment / 53701780		P-1 Line Item Nomenclature: CTC Opposing Forces Tracked Vehicles (OSTV) (MA6601)		Weapon System Type:		Date: February 1998	
OPA		FY 96		FY 97		FY 98		FY 99	
Cost Elements		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each
A. CTC OSTV Main Battle Tank								7542	9
B. Other Gov't Agencies Engineering Spt								636	
C. In-House Gov't Engineering Support								350	
D. Engineering Change Proposals								623	
E. Interim Contractor Logistics Support								1459	
TOTAL								10610	
									838

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No:		Weapon System Type:			P-1 Line Item Nomenclature:					
OTHER PROCUREMENT / Other Support Equipment / 53701780					CTC Opposing Forces Tracked Vehicles (OSTV) (MAG601)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Fiscal Years A. CTC OSTV Main Battle Tank FY 99	TBS	TBS	NAWC, Orlando, FL	Nov-98	Apr-00	9	838	Yes		
<b>REMARKS:</b> Naval Air Warfare Center (NAWC) Site - CTC Ready for Training Date - 3QFY00										





Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 3 / Other Support Equipment												TRAINING DEVICES, NONSYSTEM (NA0100)	
Program Elements for Code B Items:												Other Related Program Elements:	
654715												OMA - 115013	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	1525.7	78.2	70.2	73.5	52.4	56.8	91.1	132.8	103.2	127.1	0.0	2311.0	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	1525.7	78.2	70.2	73.5	52.4	56.8	91.1	132.8	103.2	127.1	0.0	2311.0	
Initial Spares													
Total Proc Cost	1525.7	78.2	70.2	73.5	52.4	56.8	91.1	132.8	103.2	127.1	0.0	2311.0	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION:

The Army continues to build on a major initiative with the Non-System Training Devices (NSTD) program, to introduce realistic and effective simulative training devices into the individual and unit training setting. These devices bring into play many aspects of the combat environment (smoke, noise, confusion, stress, etc.), which provide our soldier the valuable experience of battlefield conditions in a training environment. This effort includes the acquisition of training systems for maneuver situation target engagement simulators and gaming simulations. Devices and simulations are being fielded to minimize resource consumption which will effect a direct cost reduction through conservation of energy and ammunition. The reduction of available real estate (ranges and maneuver areas) for training being experienced by both active and reserve component units necessitates the increased use of devices and simulations. The devices and simulations acquired under the NSTD program are essential for the Army to achieve the goal of increasing training effectiveness and sustaining combat readiness in a constrained training environment.

JUSTIFICATION:

The FY99 NSTD program will provide for Multiple Integrated Laser Engagement System 2000 (Miles 2000), Corps Battle Simulation (CBS), the Tank Weapons Gunnery Simulation System/Precision Gunnery System (TWGSS/PGS), the Engagement Skills Trainer (EST), Tactical Simulation (TACSIM) and Range Modernization. Cost and training effectiveness analyses are performed on proposed projects resulting in only those programs demonstrating high potential payoffs being pursued. Simulators procured under this line are either the result of a development effort or are the purchase of a non-developmental item.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment				P-1 Line Item Nomenclature: TRAINING DEVICES, NONSYSTEM (NAO100)				Weapon System Type:		Date: February 1998	
OPA Cost Elements			FY 96		FY 97		FY 98		FY 99					
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
NAO100 - NSTD Manuever/Close Combat MILES 2000 Air Ground Engagemnet System II AFIST EST TWGSS/PGS	A		799 16110 8550 24417			7108 40 6377 18563			33415			16055 6221 16458		
NAO103 - NSTD Command and Control CBS - Corps Battle Simulation TACSIM JANUS	A		1052 1095 75			2779 1650			679 2334			643		
NAO105 - NSTD Ranges and Targets Range Modernization Marksmanship	A		5638			19200 1500			2432			12304		
NAO106 - NSTD Fire Support/Air Defense SAWE-RF AFIST II Fire Fighter STOWE Thru Sight Video PM Support	A		4136 2272 4479 1500 92			16295 22 12			3907			5074		
Note: Individual program totals do not match FYDP as program dollar distribution reflects most current available information.			70215			73546			52416			56755		
TOTAL														

Note: Individual program totals do not match FYDP as program dollar distribution reflects most current available information.

Exhibit P-40, Budget Item Justification Sheet												Date: February 1998	
Appropriation / Budget Activity/Serial No:				P-1 Item Nomenclature:								Multiple Integrated Laser Engagement System (MILES 2000) (NA0101)	
OTHER PROCUREMENT /Other Support Equipment / 53702062				Other Related Program Elements:								OMA-115013	
Program Elements for Code B Items:				Code:	A								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	0.0	0.0	0.8	7.1	33.4	16.1	29.7	47.9	47.9	48.4	0.0	231.3	
Less FY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	0.0	0.8	7.1	33.4	16.1	29.7	47.9	47.9	48.4	0.0	231.3	
Initial Spares													
Total Proc Cost	0.0	0.0	0.8	7.1	33.4	16.1	29.7	47.9	47.9	48.4	0.0	231.3	
Flyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:**

The MILES 2000 system provides real-time casualty effects necessary for tactical engagement training in a force-on-force training scenario. MILES 2000 is a replacement of all direct-fire "basic" MILES devices currently fielded. MILES allows the Army to train as a combined arms combat team with realistic casualty assessment.

MILES 2000 is an enhancement of basic MILES which provides the following capabilities:

- 8 aspect angles to account for side, flank, corner and rear shots. Each aspect angle will have its own associated probability of kill.
- Increased programmability of weapon characteristics, probability of kill, ranges, and basic weapon ammunition loads.
- Event recording and display.
- Discrete player ID for all participants. This will enhance training in terms of After-Action Review, and will aid in identifying training against fratricide.
- Replication of all weapon capabilities and vulnerabilities through laser simulation of weapon firing effects, and through programmed simulation of vulnerabilities.
- Enhanced audio-visual cueing effects to replicate battlefield weapon effects.

**JUSTIFICATION:**

Basic MILES is currently obsolete technically and is uneconomical to repair and sustain. FY99 continues full rate production devices will be fielded as crucially needed battalion sets. The program will continue fielding until MILES 2000 completely replaces existing MILES in the field.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT /Other Support Equipment / 53702062				P-1 Line Item Nomenclature: Multiple Integrated Laser Engagement System (MILES 2000) (NA0101)				Weapon System Type:		Date: February 1998	
OPA Cost Elements			FY 96		FY 97		FY 98		FY 99					
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
A.	A	M16A2 Rifle							6590	8660	1	3101	3473	1
B.	A	M24 Sniper Rifle							368	360	1	185	180	1
C.	A	M249 Squad Automatic Weapon (SAW)							1202	1083	1	557	500	1
D.	A	AT-4 Weapon							3757	1062	4	2038	500	4
E.	A	TOW							232	32	7	165	15	11
F.	A	M60 Machine Gun							553	511	1	344	250	1
G.	A	M2 Machine Gun							195	211	1	122	100	1
H.	A	M113 Armored Personnel Carrier (APC)							1742	309	6	845	150	6
I.	A	M2/M3 Fighting Vehicle							7033	492	14	3027	212	14
J.	A	M1A1 Tank							2134	236	9	615	68	9
K.	A	M240 Machine Gun							120	132	1	80	60	1
L.	A	Independent Target System							1930	703	3	1202	350	3
M.	A	Controller Device							745	516	1	406	250	2
N.	A	Small Arms Alignment							1044	229	5	503	110	5
O.	A	Main Gun Signature Simulator							1162	236	5	601	118	5
P.		Interim Contractor Logistics Support							1290			1300		
Q.		Engineering Change Proposals (ECPs)	234						1100			160		
R.		LRIP Provisioning Items							968					
S.		Contractor Engineering Support							200			200		
T.		Other Government Agencies Support							200			50		
U.		Testing (Functional User)	279						2000			400		
V.		In-House Government Engineering	286						650			154		
W.		Technical Documentation							200					
TOTAL			799			7108			33415			16055		

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998											
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT /Other Support Equipment / 53702062				Weapon System Type:		P-1 Line Item Nomenclature: Multiple Integrated Laser Engagement System (MILES 2000) (NA0101)															
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type		Location of PCO		Award Date		Date of First Delivery		QTY		Unit Cost \$000		Specs Avail Now?		Date Revisn Avail		RFP Issue Date	
A. M16A2 Rifle		Cubic Defense, San Diego, CA		Option		NAWC, Orlando, FL		Mar-98		Jul-98		8660		1		Yes					
FY 98				Option				Mar-99		Jul-99		3473		1		Yes					
FY 99																					
B. M24 Sniper Rifle		Cubic Defense, San Diego, CA		Option		NAWC, Orlando, FL		Mar-98		Jul-98		360		1		Yes					
FY 98				Option				Mar-99		Jul-99		180		1		Yes					
FY 99																					
C. M249 Squad Automatic Weapon (SAW)		Cubic Defense, San Diego, CA		Option		NAWC, Orlando, FL		Mar-98		Jul-98		1083		1		Yes					
FY 98				Option				Mar-99		Jul-99		500		1		Yes					
FY 99																					
D. AT-4 Weapon		Cubic Defense, San Diego, CA		Option		NAWC, Orlando, FL		Mar-98		Jul-98		1062		4		Yes					
FY 98				Option				Mar-99		Jul-99		500		4		Yes					
FY 99																					
E. TOW		Cubic Defense, San Diego, CA		Option		NAWC, Orlando, FL		Mar-98		Jul-98		32		7		Yes					
FY 98				Option				Mar-99		Jul-99		15		11		Yes					
FY 99																					
F. M60 Machine Gun		Cubic Defense, San Diego, CA		Option		NAWC, Orlando, FL		Mar-98		Jul-98		511		1		Yes					
FY 98				Option				Mar-99		Jul-99		250		1		Yes					
FY 99																					
G. M2 Machine Gun		Cubic Defense, San Diego, CA		Option		NAWC, Orlando, FL		Mar-98		Jul-98		211		1		Yes					
FY 98				Option				Mar-99		Jul-99		100		1		Yes					
FY 99																					
REMARKS:		Naval Air Warfare Center (NAWC) No production award in FY97 due to delays in contractor testing. Sites - Army Wide Ready for Training Date - 2QFY99 because systems are issued by battalion sets.																			

Exhibit P-5a, Budget Procurement History and Planning													
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT /Other Support Equipment / 53702062					Weapon System Type:		Date: February 1998						
P-1 Line Item Nomenclature:					Multiple Integrated Laser Engagement System (MILES 2000) (NAO101)								
WBS Cost Elements: Fiscal Years					Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
H. M113 Armored Personnel Carrier (APC) FY 98 FY 99					Cubic Defense, San Diego, CA	NAWC, Orlando, FL	Mar-98	Jul-98	309	6	Yes		
							Mar-99	Jul-99	150	6	Yes		
I. M2/M3 Fighting Vehicle FY 98 FY 99					Cubic Defense, San Diego, CA	NAWC, Orlando, FL	Mar-98	Jul-98	492	14	Yes		
							Mar-99	Jul-99	212	14	Yes		
J. M1A1 Tank FY 98 FY 99					Cubic Defense, San Diego, CA	NAWC, Orlando, FL	Mar-98	Jul-98	236	9	Yes		
							Mar-99	Jul-99	68	9	Yes		
K. M240 Machine Gun FY 98 FY 99					Cubic Defense, San Diego, CA	NAWC, Orlando, FL	Mar-98	Jul-98	132	1	Yes		
							Mar-99	Jul-99	60	1	Yes		
L. Independent Target System FY 98 FY 99					Cubic Defense, San Diego, CA	NAWC, Orlando, FL	Mar-98	Jul-98	703	3	Yes		
							Mar-99	Jul-99	350	3	Yes		
M. Controller Device FY 98 FY 99					Cubic Defense, San Diego, CA	NAWC, Orlando, FL	Mar-98	Jul-98	516	1	Yes		
							Mar-99	Jul-99	250	2	Yes		
REMARKS:					Naval Air Warfare Center (NAWC) No production award in FY97 due to delays in contractor testing. Sites - Army Wide Ready for Training Date - 2QFY99								

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No:		P-1 Line Item Nomenclature:								
OTHER PROCUREMENT /Other Support Equipment / 53702062		Multiple Integrated Laser Engagement System (MILES 2000) (NAO101)								
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
N. Small Arms Alignment FY 98 FY 99	Cubic Defense, San Diego, CA	Option Option	NAWC, Orlando, FL	Mar-98 Mar-99	Jul-98 Jul-99	229 110	5 5	Yes Yes		
O. Main Gun Signature Simulator FY 98 FY 99	Cubic Defense, San Diego, CA	Option Option	NAWC, Orlando, FL	Mar-98 Mar-99	Jul-98 Jul-99	236 118	5 5	Yes Yes		
<b>REMARKS:</b> Naval Air Warfare Center (NAWC) No production award in FY97 due to delays in contractor testing. Sites - Army Wide Ready for Training Date - 2QFY99										







Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT /Other Support Equipment / 53702062												P-1 Item Nomenclature:
Program Elements for Code B Items:												Air Ground Engagement System (AGES II) (NA0101)
Code:												OMA-115013
Other Related Program Elements:												
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	16.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	16.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.1
Initial Spares												
Total Proc Cost	0.0	0.0	16.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.1
Flyaway U/C												
Wpn Sys Proc U/C												

**DESCRIPTION:**  
 AGES II expands the current Multiple Integrated Engagement System (MILES) by incorporating MILES training devices for the AH-64, OH-58D, OH-58D Kiowa Warrior, CH-47D, UH-60A, UH-60L helicopters and the Field Artillery Ground/Vehicle Locator Designator (G/VLLD), referred to as the Hellfire Ground Support System (HGSS). The training devices provide integrated and removable components for eye-safe laser operations to accurately simulate the vulnerability characteristics, weapon characteristics and weapons effects of the platform being simulated. The AGES II training devices provide transparent operation to the crew(s) in employing, operating and engaging with their weapon systems using the onboard tactical weapon systems with eye-safe lasers to simulate live ordnance. AGES II system features include: eye-safe range finding operations out to 10 kilometers, Hellfire missile simulation out to eight kilometers, 30 millimeter cannon simulation out to three kilometers, and hydra 70 rocket simulation (direct fire only) out to six kilometers using all tactical modes of weapon employment. AGES II is a training system that can be used for individual, crew, collective and force-on-force training. The simulations significantly enhance the soldier's/unit's ability to achieve the maneuver firepower required to destroy the enemy. These devices are critical to sustaining combat readiness since the proper weapon employment, engagement techniques and weapon system switchology skills are prone to decay over time. The AGES II devices allow the flight and ground crews to conduct simulated combat operations allowing evaluation of critical tasks at the Combat Training Centers.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT /Other Support Equipment / 53702062				P-1 Line Item Nomenclature: Air Ground Engagement System (AGES II) (NA0101)				Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
A. AH-64 Hardware	A	12940	62	209									
B. AH-64 AIBS Kits*	A	750	30	25									
C. ECP for Remote/Resurrect		701											
D. ECP for Fire Controller Computer		200											
E. In-House Government Eng Support		352											
F. Interim Contractor Logistics Support		996											
G. T&M Contractor Support		97											
H. Other Government Agency Eng Support		74			40								
AIBS=Apache Internal Bore Sight													
TOTAL		16110			40								

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No. OTHER PROCUREMENT / Other Support Equipment / 53702062			Weapon System Type:		P-1 Line Item Nomenclature: Air Ground Engagement System (AGES II) (NAO101)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
A. AH-64 Hardware FY 96	Lockheed/Martin, Pomona, CA	SS/FP	NAWC, Orlando, FL	Feb-96	Jul-97	62	209	Yes		
B. AH-64 AIBS Kits FY 96	Lockheed/Martin, Pomona, CA	SS/FP	NAWC, Orlando, FL	Feb-96	Oct-96	30	25	Yes		
<b>REMARKS:</b> Naval Air Warfare Center (NAWC) Delivery Sites - Army Wide Ready for Training Date - 3QFY95										





Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT /Other Support Equipment / 53702062												Abrams Full-Crew Interactive Simulation Training (AFIST) (NA0101)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code: A												OMA-115013	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	0.0	0.0	8.6	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	0.0	8.6	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0	
Initial Spares													
Total Proc Cost	0.0	0.0	8.6	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0	
Flyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:**  
 AFIST is a deployable tank-appended training device used to train armored crewmen in full-crew interactive gunnery techniques and procedures on the M1/M1A1 series of tanks. Using actual tank controls, it trains precision and degraded mode gunnery tasks to attain/sustain precision tank gunnery proficiency. The simulation provides both desert and European databases and generates interactive visual and aural effects.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT /Other Support Equipment / 53702062			P-1 Line Item Nomenclature: Abrams Full-Crew Interactive Simulation Training (AFIST) (NA0101)			Weapon System Type:			Date: February 1998		
OPA Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
A.		Hardware	7290	27	270	5678	21	270						
B.		ADA Software Maint Support	390											
C.		Interim Contractor Logistics Support	350			101								
D.		ECPs	405			247								
E.		In-House Gov't Engineering Support	90			136								
F.		Other Gov't Agencies Engineering Spt	25			181								
G.		Contractor Engineering Support				34								
TOTAL			8550			6377								



Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998											
Appropriation / Budget Activity/Serial No:		P-1 Line Item Nomenclature:																			
OTHER PROCUREMENT / Other Support Equipment / 53702062		Abrams Full-Crew Interactive Simulation Training (AFIST) (NA0101)																			
WBS Cost Elements:		Contractor and Location		Contract Method and Type		Location of PCO		Award Date		Date of First Delivery		QTY Each		Unit Cost \$000		Specs Avail Now?		Date Revisn Avail		RFP Issue Date	
Fiscal Years																					
A. Hardware																					
FY 96		Ind Data Link, San Diego, CA		Option		NAWC, Orlando, FL		Feb-96		Dec-96		27		270		Yes					
FY 97		Ind Data Link, San Diego, CA		Option		NAWC, Orlando, FL		Dec-96		May-97		18		270		Yes					
FY 97		Ind Data Link, San Diego, CA		Option		NAWC, Orlando, FL		Jan-97		Jun-97		2		270		Yes					
FY 97		Ind Data Link, San Diego, CA		Option		NAWC, Orlando, FL		Aug-97		Jan-98		1		270		Yes					
B. Transit Cases																					
FY95		Ind Data Link, San Diego, CA		Option		NAWC, Orlando, FL		Jun-95		Dec-95		442				Yes					

**REMARKS:** FY96 and FY97 System buys include transit cases in the cost for each system. FY95 Transit cases cost \$380 each. Due to delay in receipt of entire FY97 appropriation, two separate options were awarded. 3rd option possible due to change in requirements. Delivery Sites - National Guard Sites Ready for Training Date - 4QFY95 Naval Air Warfare Center (NAWC) Type of Contract - 8AFFP





Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:				P-1 Item Nomenclature:								Engagement Skills Trainer (EST) (NA0101)	
OTHER PROCUREMENT /Other Support Equipment / 53702062				Other Related Program Elements:								115013	
Program Elements for Code B Items:				Code: B								654715	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	0.0	0.0	0.0	0.0	0.0	6.2	18.9	19.2	24.2	8.4	0.0	76.9	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	0.0	0.0	0.0	0.0	6.2	18.9	19.2	24.2	8.4	0.0	76.9	
Initial Spares													
Total Proc Cost	0.0	0.0	0.0	0.0	0.0	6.2	18.9	19.2	24.2	8.4	0.0	76.9	
Flyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:**  
 The Engagement Skills Trainer (EST) provides individual and crew weapon marksmanship at the squad level for collective training. Squad leaders will also be able to control and evaluate individual, team and squad performance.

**JUSTIFICATION:**  
 The FY99 funding program procures 27 ESTs. FY99 RDTE effort is required to develop scenarios and the training support package to meet the user's need. The Army has an existing and continual need to train soldiers' marksmanship skills for all of its small arms weapons. Currently millions of dollars are spent annually in ammunition costs to train and qualify marksmanship skills. Use of the EST will provide a significant savings in ammunition costs while providing validated transfer of training for gunnery and marksmanship training for all small arms. The annual ammunition savings will pay for the program within five years. Included in the EST are the M16A2, M9 pistol, MK19, M249 SAW, M60 Machine Gun, M2 Machine Gun and the capabilities to include many others.

Exhibit P-5. Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT /Other Support Equipment / 53702062			P-1 Line Item Nomenclature: Engagement Skills Trainer (EST) (NA0101)			Weapon System Type:			Date: February 1998		
OPA			FY 96			FY 97			FY 98			FY 99		
Cost Elements			TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
A. Hardware		B										5400	27	200
B. Test Support												94		
C. In-House Engineer Support												153		
D. Other Gov't Agencies Engineer Support												110		
E. Iterim Contractor Logistic Support												419		
F. Technical Data												45		
<b>TOTAL</b>												<b>6221</b>		

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998
Appropriation / Budget Activity/Serial No:			Weapon System Type:		P-1 Line Item Nomenclature:						
OTHER PROCUREMENT /Other Support Equipment / 53702062					Engagement Skills Trainer (EST) (NA0101)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Reven Avail	RFP Issue Date	
A. Hardware FY 99	TBS	FFP	NAWC, Orlando, FL	Dec-98	Apr-99	27	200	Yes			
<b>REMARKS:</b> Naval Air Warfare Center (NAWC) Original award date estimate, revised award date based on current program status. Delivery Site - TBS Ready for Training Date - 4QFY99											



Exhibit P-40, Budget Item Justification Sheet													Date:
Appropriation / Budget Activity/Serial No:													February 1998
OTHER PROCUREMENT /Other Support Equipment / 53702062													P-1 Item Nomenclature:
Program Elements for Code B Items:													Tank Weapon Gun Sim Sys/Precision Gun Sys (TWGSS/PGS) (NA0101)
Code:													OMA-115013
Other Related Program Elements:													
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	0.0	0.0	24.4	18.6	9.7	16.5	17.4	36.3	0.0	0.0	0.0	122.9	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	0.0	24.4	18.6	9.7	16.5	17.4	36.3	0.0	0.0	0.0	122.9	
Initial Spares													
Total Proc Cost	0.0	0.0	24.4	18.6	9.7	16.5	17.4	36.3	0.0	0.0	0.0	122.9	
Flyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:**

Appended, laser-based device used for precision gunnery on Abrams Tanks (TWGSS) and Bradley Fighting Vehicles (PGS) gunnery tables day/night and training at platoon, company and battalion level during exercises. Device superimposes real-time tracer image over sight picture in gunner's and commander's sights and simulates burst over calculated impact point. System operates in real-time. System simulates the main guns (120MM, 105MM, 25MM, 7.62MM coax machine guns and TOW Missiles). Aural effects are provided to crew along with sight obscuration. System has onboard display for crew evaluation (also built in test (bit), ammunition count, automatic alignment) and an After Action Review System. TWGSS/PGS is fully integrated with the vehicle's fire control system requiring crews to use fire control procedures as if firing live ammunition. System utilizes time of flight ballistics and target modeling incorporating aspect angle, ammunition type, range, armor, tilt (forwards/backwards), cant (side/side), and defilade condition to determine target vulnerability. TWGSS/PGS improves crew/gunner's ability to destroy enemy tanks by replicating ballistics, probability of hit/probability of kill, and angle of kill when assessing target hits.

**JUSTIFICATION:**

FY99 funding continues production of the TWGSS/PGS program, and thru FY99 770/693 TWGSS/PGS devices will have been procured of the approved total requirement of 1191/1147 TWGSS/PGS systems. The TWGSS/PGS trains active and reserve components precision gunnery training in support of the Army's combat capability. Reduction in full caliber ammunition and OPTEMPO resource restrictions has increased the problem of annual peak gunnery proficiency followed by proficiency slump for the active component, National Guard and reserves. Simulated non-firing crew drills, subcaliber firing, and actual main gun firing are the current method of obtaining gunnery proficiency. This strategy will peak the vehicle crews during qualification exercises, but does not sustain the crew's gunnery skills. Thus, combat readiness degradation occurs in between peak gunnery periods.



Exhibit P-40C Budget Item Justification Sheet				Date
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature		February 1998
OTHER PROCUREMENT /Other Support Equipment / 53702062		Tank Weapon Gun Sim Sys/Precision Gun Sys (TWGSS/PGS) (NA0101)		
Program Elements for Code B Items	Code	Other Related Program Elements	ONA-115013	
<p>The TWGSS/PGS, with its ability to be used anywhere, anytime, will allow the active component, National Guard, and Army Reserve to continue to train and hone gunnery skills on a year round basis at any location (motor pool, local training area, major training area, armory). This ensures that the armor force maintains its combat capability at all times. TWGSS/PGS is one of the cornerstones of the combined arms training strategy. It is the basis for much of the gunnery training and sustainment. With TWGSS/PGS we have, for the first time, the ability to analyze errors and make an accurate evaluation of the crew and unit gunnery capabilities, all without firing ammunition. Reduction in ammunition allocations, as a result of TWGSS/PGS fielding, saves \$24K per system per year. This is a return on investment in less than 28 months.</p>				

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT /Other Support Equipment / 53702062				P-1 Line Item Nomenclature: Tank Weapon Gun Sim Sys/Precision Gun Sys (TWGSS/PGS) (NA0101)				Weapon System Type:		Date: February 1998	
OPA Cost Elements			FY 96		FY 97		FY 98		FY 99					
ID	CD		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
A. TWGSS	A		11241	202	56	8775	171	51	4983	92	54	7647	143	53
B. PGS	A		11777	196	60	9309	174	54	4540	79	57	8613	149	58
C. In-House Gov't Engineering Support			93			51			38			33		
D. Contractor Engineering Support			100			88			88			115		
E. ECPs			1206			340						50		
TOTAL			24417			18563			9649			16458		

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998
Appropriation / Budget Activity/Serial No:		Weapon System Type:			P-1 Line Item Nomenclature:						
OTHER PROCUREMENT / Other Support Equipment / 53702062					Tank Weapon Gun Sim Sys/Precision Gun Sys (TWGSS/PGS) (NAO101)						
WBS Cost Elements: Fiscal Years		Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revis Avail	RFP Issue Date
A. TWGSS											
FY 95		SAAB Training Sys, Sweden	Option	NAWC, Orlando, FL	Mar-95	Aug-95	120	56	Yes		
FY 96		SAAB Training Sys, Sweden	Option	NAWC, Orlando, FL	Oct-95	Mar-96	202	56	Yes		
FY 97		SAAB Training Sys, Sweden	Option	NAWC, Orlando, FL	Nov-96	Apr-97	171	51	Yes		
FY 98		SAAB Training Sys, Sweden	Option	NAWC, Orlando, FL	Jan-98	Jun-98	92	54	Yes		
FY 99		SAAB Training Sys, Sweden	Option	NAWC, Orlando, FL	Oct-98	Mar-99	143	53	Yes		
B. PGS											
FY 95		SAAB Training Sys, Sweden	Option	NAWC, Orlando, FL	Mar-95	Aug-95	74	64	Yes		
FY 96		SAAB Training Sys, Sweden	Option	NAWC, Orlando, FL	Oct-95	Mar-96	196	60	Yes		
FY 97		SAAB Training Sys, Sweden	Option	NAWC, Orlando, FL	Nov-96	Apr-97	174	54	Yes		
FY 98		SAAB Training Sys, Sweden	Option	NAWC, Orlando, FL	Jan-98	Jun-98	79	57	Yes		
FY 99		SAAB Training Sys, Sweden	Option	NAWC, Orlando, FL	Oct-98	Mar-99	149	58	Yes		
REMARKS:		NAWC = Naval Air Warfare Center PY TWGSS Procurements = 42 PY PGS Procurements=21 BOI increased by 105 PGS with addition of Air Defense Bradley requirements per training device proponent. Delivery Sites - Army Wide Ready for Training Date: 3QFY95									







Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998	
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										Range Modernization (NA0105)		
OTHER PROCUREMENT /Other Support Equipment / 53702062		Other Related Program Elements:												
Program Elements for Code B Items:		Code:												
		A	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog			
Proc Qty	Prior Years													
Gross Cost	0.0		19.2	2.4	12.3	10.2	10.5	10.7	10.9	0.0	81.8			
Less PY Adv Proc														
Plus CY Adv Proc														
Net Proc (P-1)	0.0		19.2	2.4	12.3	10.2	10.5	10.7	10.9	0.0	81.8			
Initial Spares														
Total Proc Cost	0.0		19.2	2.4	12.3	10.2	10.5	10.7	10.9	0.0	81.8			
Flyaway U/C														
Wpn Sys Proc U/C														

**DESCRIPTION:**

The Range Modernization consists of ranges that incorporate infantry and armor targets, both stationary and moving, that portray realistic opposing target threat to the American Soldier using simulated battlefield conditions. Range Modernization facilitates training in detection, identification, rapid engagement and proper leading of moving targets under day/night conditions, all of which will be required in a fast moving war. The quantities of each component are tailored to the range configuration of M1 which there are currently 14 different types. Range designs provide training for the basic and advance rifle marksmanship programs and combined arms training of M1 Tank and Bradley Fighting Vehicles (MS IFV/MC CFV), Aerial Gunnery, Cobra and Apache Attack Helicopter, Air Defense Artillery (ADA), and Vulcan. The training ranges can be operated by an operator-programmer via a computer-controlled console located in the range tower or by a hand-held receiver transmitter. New Generation Army Target System (NGATS) supports the Army's Range Modernization initiatives. The system consists of live-fire target mechanisms (infantry and armor, stationary and moving), control systems and interfaces to other training systems. NGATS equipment is typically portable, radio- controlled and commercially available.

**JUSTIFICATION:**

The FY99 program supports the procurement and in-house support for range targetry on ten infantry and seven armor ranges. An Armor Range typically consists of a range control station and varying quantities of infantry, stationary and moving armor targets, and simulators. An Infantry Range typically consists of a range control station and varying quantities of infantry targets and simulators.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT /Other Support Equipment / 53702062			P-1 Line Item Nomenclature: Range Modernization (NA0105)			Weapon System Type:			Date: February 1998		
ID CD	OPA Cost Elements		FY 96			FY 97			FY 98			FY 99		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
	Range Modernization Hardware	A												
	A. Range Control Station Armor		69	2	35			35						
	B. Range Control Station Infantry		181	8	23			17						
	C. Infantry Target Mechanism (ITM)		540	250	2			23						
	D. Infantry Hostile Fire Simulator		8	2	4			16						
	E. Low Power Junction Box		305	350	1			1						
	F. Infantry Moving Target Carrier		66	5	13			2						
	G. Night Muzzle Flash Sim		16	25	1			1						
	H. Double Target Arm		49	88	1			6						
	I. Armor Moving Target Carrier (AMTC)		821	9	91			1						
	J. Target Interface Unit		57	21	3			100						
	K. Tank Gun Simulator		734	350	2			100						
	L. 3D Target		27	3420	1			100						
	M. Central Modem		2	4	4			1						
	N. Remote Modem		20	5	4			4						
	O. Range Modernization Installation		1529		9									
	P. Adapter Aux Operation		27	3										
	NGATS													
	Q. Hand Held Controller													
	R. Target Interface Assembly													
	S. Tank Target Mech Radio Control													
	T. Tank Target Mech Hard Wire													
	U. Infantry Target Mechanism (ITM)													
	V. Controller													
	W. Armor Moving Target Carrier (AMTC)													
	X. Tank Target Mechanism (TTM)													
	Y. Armor Tank Kill Simulator (ATKS)													
	Z. Lightweight Moving Target Sys Conversion													
	SUBTOTAL		4451			10049	500		6655					



Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT /Other Support Equipment / 53702062				P-1 Line Item Nomenclature: Range Modernization (NA0105)				Weapon System Type:		Date: February 1998	
OPA		FY 96		FY 97		FY 98		FY 99					
Cost Elements		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
AA. Lightweight Moving Target Sys Installation					1902			240			1500		
BB. Pneumatic Ranges					463						500		
CC. Pneumatic Installation											1239		
DD. Armor Moving Target Carrier (AMTC) Retrofit					1176			200			1666		
EE. NGATS Installation					419						150		
FF. Storage		180			871								
GG. System Tech Support		321			569			342			400		
HH. Govt In-House Support		421			130			100			100		
II. Quality Assurance		128			1115								
JJ. Engr Change Proposals		42			2002			1050			84		
KK. Other Support		46			504								
LL. Government Furnished Materials (GFM)		49											
TOTAL		5638			19200			2432			12304		

Exhibit P-5a, Budget Procurement History and Planning											
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT /Other Support Equipment / 53702062					Weapon System Type:		Date: February 1998				
WBS Cost Elements: Fiscal Years					Contractor and Location		Contract Method and Type		P-1 Line Item Nomenclature: Range Modernization (NA0105)		

Exhibit P-5a, Budget Procurement History and Planning										
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT /Other Support Equipment / 53702062				Weapon System Type:		P-1 Line Item Nomenclature: Range Modernization (NA0105)				
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?
										Date Revisn Avail
										RFP Issue Date
FY 97	G. Night Muzzle Flash Sim	Lockheed Martin, AL	Option	(4)	Mar-97 Apr-97	Feb-98 May-98	5 21	13 6		
FY 96										
FY 97										
FY 97										
FY 97										
FY 96	H. Double Target Arm	Lockheed Martin, AL	CFFM-5	(3) ACALA, RI, IL	(4)	Mar-96 Mar-97 Apr-97 Sep-97	Dec-96 Apr-98 Apr-98 Jul-98	25 15 112 124	1 1 1 1	
FY 97										
FY 97										
FY 97										
FY 96	I. Armor Moving Target Carrier (AMTC)	Lockheed Martin, AL	CFFM-5	(3) ACALA, RI, IL	(4)	Mar-96 Mar-97 Apr-97	Jun-96 Jan-98 Mar-98	88 50 25	1 1 1	
FY 97										
FY 97										
FY 97										
FY 96	J. Target Interfact Unit	Lockheed Martin, AL	CFFM-5	(3) ACALA, RI, IL	(4)	Mar-96 Mar-97 Aug-97 Sep-97	Feb-98 Jun-98 Nov-98 Jan-99	9 5 18 9	91 100 100 100	
FY 97										
FY 97										
FY 97										
FY 96	K. Tank Gun Simulator	Lockheed Martin, AL	CFFM-5	(3) ACALA, RI, IL	Mar-96	Mar-97	21	3		
FY 96										
REMARKS: Armament and Chemical Acquisition Logistics Activity (ACALA)										

Exhibit P-5a, Budget Procurement History and Planning											
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT /Other Support Equipment / 53702062					Weapon System Type:		P-1 Line Item Nomenclature: Range Modernization (NA0105)				
WBS Cost Elements: Fiscal Years		Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
L. 3D Target FY 96		C.R. Daniels, Ellicott City, MD	CFFP	ACALA, IR, IL	Oct-96	Mar-97	3420				
M. Central Modem FY 96 FY 97		Lockheed Martin, AL	CFFM-5	(3) ACALA, RI, IL (4)	Mar-96 Mar-97	Dec-96 Jan-98	4 4	1 1			
N. Remote Modem FY 96 FY 97		Lockheed Martin, AL	CFFM-5	(3) ACALA, RI, IL (4)	Mar-96 Mar-97	Dec-96 Jan-98	5 5	4 4			
P. Adapter Aux Operation FY 96		Lockheed Martin, AL	CFFM-5	(3) ACALA, RI, IL	Mar-96	Jan-97	3	9			
Q. Hand Held Controller FY 97		Lockheed Martin, AL	CFFP	ACALA, RI, IL	Sep-97	Jul-98	11	3			
R. Target Interface Assembly FY 97		Lockheed Martin, AL	CFFP	ACALA, RI, IL	Sep-97	Aug-98	708	1			
S. Tank Target Mech Radio Control FY 97		Lockheed Martin, AL	CFFP	ACALA, RI, IL	Sep-97	Jul-98	92	7			
T. Tank Target Mech Hard Wire FY 97		Lockheed Martin, AL	CFFP	ACALA, RI, IL	Sep-97	Aug-98	178	7			
REMARKS: Armament and Chemical Acquisition Logistics Activity (ACALA)											

Exhibit P-5a, Budget Procurement History and Planning										Date:
Appropriation / Budget Activity/Serial No:		Weapon System Type:		P-1 Line Item Nomenclature:						February 1998
OTHER PROCUREMENT / Other Support Equipment / 53702062				Range Modernization (NAO105)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revis Avail	RFP Issue Date
U. Infantry Target Mechanism (ITM) FY 99	TBS	CFFP	ACALA, RI, IL	Dec-98	Jul-99	391	3			
V. Controller FY 99	TBS	CFFP	ACALA, RI, IL	Dec-98	Aug-99	15	4			
W. Armor Moving Target Carrier (AMTC) FY 99	TBS	CFFP	ACALA, RI, IL	Dec-98	Sep-99	17	104			
X. Tank Target Mechanism (TTM) FY 99	TBS	CFFP	ACALA, RI, IL	Dec-98	Aug-99	400	7			
Y. Armor Tank Kill Simulator (ATKS) FY 99	TBS	CFFP	ACALA, RI, IL	Dec-98	Jul-99	417	2			
REMARKS: Armament and Chemical Acquisition Logistics Activity (ACALA)										









Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT /Other Support Equipment / 53702062												Simulated Area Weapons Effects-Radio Frequency (SAWE-RF) (NA0106)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code:												OMA-115013	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	0.0	0.0	4.1	16.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.4	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	0.0	4.1	16.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.4	
Initial Spares													
Total Proc Cost	0.0	0.0	4.1	16.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.4	
Flyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:**  
The Simulated Area Weapons Effects-Radio Frequency (SAWE-RF) provides a means to simulate in real-time the effects of indirect fire, mines and nuclear, biological and chemical (NBC). The SAWE-RF system consists of several subsystems at each Combat Training Center (CTC), including the basic SAWE-RF subsystem control station (MCS) and several different detection devices (vehicle, player, etc.). The system is integrated with a block upgrade to the existing Multiple Integrated Laser Engagement System (MILES II) and will be deployed in field training at each CTC to support force-on-force training. Both sides, blue forces and opposing forces, are equipped with these training devices. The Army requires force-on-force training to sharpen collective tasks skills. The SAWE-RF and MILES II procurement programs have been integrated to support combined tactical engagement simulation and casualty assessment instrumentation required to sustain realistic force-on-force training exercises at the three maneuver Combat Training Centers (CTC). Soldier fighting skills are honed in a realistic combat environment and learning is enhanced by the effect of insightful After Action Reviews (AARs) using graphic and numeric data recorded by the SAWE/MILES II devices.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT /Other Support Equipment / 53702062				P-1 Line Item Nomenclature: Simulated Area Weapons Effects-Radio Frequency (SAWE-RF) (NA0106)				Weapon System Type:		Date: February 1998	
OPA Cost Elements			FY 96		FY 97		FY 98		FY 99					
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
A.	A	Vehicle Detection Device (VDD)				10212	276	37						
B.	A	Multiple Integrated Target System				1900	100	19						
C.		Battery Recharger Kit				451	376	1						
D.		In-House Gov't Engineering Support	345			314								
E.		Other Gov't Agencies Engineering Spt	25											
F.		Contractor Support Services	500			470								
G.		Contractor Integration Efforts	600			1451								
H.		Interim Contractor Logistics Support	1432			1000								
I.		Interface Control Doc ECP	100											
J.		T72/T80 BMP ECP	100											
K.		Battery Safety ECP	975			7								
L.		1" Antenna Standoff ECP	59											
M.		Data/Documentation Package				490								
TOTAL			4136			16295								

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No:		P-1 Line Item Nomenclature:								
OTHER PROCUREMENT / Other Support Equipment / 53702062		Simulated Area Weapons Effects-Radio Frequency (SAWE-RF) (NAO106)								
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revis Avail	RFP Issue Date
Fiscal Years										
A. Vehicle Detection Device (VDD) FY 97	Lockheed/Martin, Pomona, CA	FFP	NAWC, Orlando, FL	Jan-97	Jan-98	276	37	Yes		
B. Multiple Integrated Target System FY 97	Lockheed/Martin, Pomona, CA	FFP	NAWC, Orlando, FL	Jan-97	Jan-98	100	19	Yes		
C. Battery Recharger Kit FY 97	Lockheed/Martin, Pomona, CA	FFP	NAWC, Orlando, FL	Jan-97	Jan-98	376	1	Yes		
<b>REMARKS:</b> Naval Air Warfare Center (NAWC) Delivery Sites - CTCs Ready for Training Date - 1QFY94										



Exhibit P-40, Budget Item Justification Sheet											Date:	February 1998
Appropriation / Budget Activity/Serial No:											P-1 Item Nomenclature:	
OTHER PROCUREMENT / 3 / Other Support Equipment											SIMNET/CLOSE COMBAT TACTICAL TRAINER (NA0170)	
Program Elements for Code B Items:											Other Related Program Elements:	
654780											OMA - 115013121014	
Code: B												
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	32.5	31.8	29.3	45.3	72.2	113.9	53.6	62.1	0.7	0.0	0.0	441.4
Less PY Adv Proc					18.9							18.9
Plus CY Adv Proc				18.9								18.9
Net Proc (P-1)	32.5	31.8	29.3	64.2	53.3	113.9	53.6	62.1	0.7	0.0	0.0	441.4
Initial Spares												
Total Proc Cost	32.5	31.8	29.3	64.2	53.3	113.9	53.6	62.1	0.7	0.0	0.0	441.4
Flyaway U/C												
Wpn Sys Proc U/C												

**DESCRIPTION:**

Close Combat Tactical Trainer (CCTT) will be a networked system of manned simulators (Tank, Bradley, FIST-V, HMMWV, M113A3) supported by emulators and semi-automated forces that provide combat support, combat service support and both friendly and opposing forces. It will train crew through battalion level combat elements of close combat units of both the Reserve Component (RC) and Active Component (AC) in their collective tasks as defined in the Mission Training Plan (MTP) for those units. The army will field simulator modules to 10 fixed company-level sites and 12 mobile platoon-level sites. Each fixed system will contain a maximum of 40 simulator modules, which is based on the locations of AC divisions and regiments, and will service both AC and RC units. The CCTT fixed facility contains: a simulation bay, sized to accommodate from 27 to 40 manned modules; an Observer Control (OC) and a Tactical Operation Center (TOC); five After Action Rooms (AARs); two Semi-Automated Forces (SAF) Rooms (Blue and Red) each containing five SAF workstations; Maintenance Control Console (MCC) Room; and a Master Console (MC). The mobile platoon systems contain 4 simulator modules in the tank platoon version and 5 simulator modules in the infantry/cavalry platoon version. Dedicated to the RCs, these mobile systems will be based out of AC installation Training Support Centers (TSCs) but will travel to RC unit armories for training at home station.

**Note:** Prior year funds were expended for SIMNET Program, not CCTT Program. Exhibit P5E reflects only CCTT Program for a total of 408.9M.

<b>Exhibit P-40C Budget Item Justification Sheet</b>		Date	February 1998
Appropriation / Budget Activity/Serial No.	P-1 Item Nomenclature		
OTHER PROCUREMENT / 3 / Other Support Equipment	SIMNET/CLOSE COMBAT TACTICAL TRAINER (NA0170)		
Program Elements for Code B Items	Code	Other Related Program Elements	
654780	B	OMA-115013/121014	
<p><b>JUSTIFICATION:</b></p> <p>FY99 funding is for the production of mobile tank and bradley configurations and fixed site assets. Funding for FY99 provides production buys of 77 fixed site modules and 18 mobile modules. Fielding schedules have been established to support the AC and RC in training the total Combined Arms Force as a simulated, fully interactive battlefield. The need is to train and sustain collective (crew through battalion) tasks and skills in command and control, communications and maneuver, and to integrate the functions of combat support and combat service support units. These production systems support urgent training requirements of Army to redress the lack of training opportunity for platoon/company team elements. Limited User Test (LUT) completed June 1997. Milestone IIIA (LRIP) planned for 2nd QTR FY98. Milestone III planned for November 1998.</p>			

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment			P-1 Line Item Nomenclature: SIMNET/CLOSE COMBAT TACTICAL TRAINER (NA0170)			Weapon System Type:			Date: February 1998		
ID	OPA	Cost Elements	FY 96			FY 97			FY 98			FY 99		
			TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
CCTT	B													
A. QUICKSTART			23037	42	549	29728								
B. MODULES & SITE EQUIPMENT						3644	4	911	45550	50	911	67325	95	709
C. COMMERCIAL TRAILERS FOR									3218	9	358	6388	18	355
D. LONG LEAD COMMERCIAL IMAGE GENERATORS														
E. COMMERCIAL IMAGE GENERATORS						18866	78	242				35639	135	264
F. END OF LIFE COMMERCIAL MONITORS AND HEADTRACKERS						4238								
G. PRODUCTION ENGINEERING SUPPORT BY STRICOM/NAWC-			1600			1966			1375			1644		
H. PM SUPPORT												906		
I. PRODUCTION ENGINEERING SUPPORT BY CONTRACTORS			2760			3481						264		
J. PRODUCTION ENGINEERING SUPPORT BY GOVT. AGENCIES			1862			2299						995		
K. ENGINEERING CHANGE														
L. IMAGE GENERATOR/PROCESSOR UPGRADES FOR FIELDIED									3183			766		
TOTAL			29259			64222			53326			113927		

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998											
Appropriation / Budget Activity/Serial No:			Weapon System Type:			P-1 Line Item Nomenclature:																
OTHER PROCUREMENT / 3 / Other Support Equipment						SIMNET/CLOSE COMBAT TACTICAL TRAINER (NA0170)																
WBS Cost Elements:			Contractor and Location		Contract Method and Type		Location of PCO		Award Date		Date of First Delivery		QTY Each		Unit Cost \$000		Specs Avail Now?		Date Revisn Avail		RFP Issue Date	
Fiscal Years																						
CCIT																						
A. QUICKSTART FY 96			Lockheed/Martin Information Sys Orlando. FL		C/PIF OPTION		NAWC, ORLANDO, FL		Jan-96		Aug-96		42		549							
B. MODULES & SITE EQUIPMENT FY 97			Lockheed/Martin Information Sys Orlando. FL		C/PIF OPTION		NAWC, ORLANDO, FL		Jan-98		Nov-98		4		911							
FY 98			Lockheed/Martin Information Sys Orlando. FL		C/PIF OPTION		NAWC, ORLANDO, FL		Jan-98		Nov-98		50		911							
FY 99			Lockheed/Martin Information Sys Orlando. FL		C/FP OPTION		NAWC, ORLANDO, FL		Nov-98		Aug-99		95		709							
REMARKS:																						











Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 3 / Other Support Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												FIRE SUPPORT COMBINED ARMS TACTICAL TRAI (NA0174)
Code: B												Other Related Program Elements:
654715												OMA - 115013
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	0.0	22.0	19.4	28.1	25.3	11.8	0.0	0.0	0.0	106.6
Less FY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	22.0	19.4	28.1	25.3	11.8	0.0	0.0	0.0	106.6
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	22.0	19.4	28.1	25.3	11.8	0.0	0.0	0.0	106.6
Flyaway U/C												
Won Sys Proc U/C												

**DESCRIPTION:**

The Fire Support Combined Arms Tactical Trainer (FSCATT) is a two-phased effort to provide training for the field artillery gunnery team. FSCATT Phase I will provide individual and crew-level skills training. FSCATT Phase II will be a collective trainer that simulates fire support within the combined arms tactical trainer. The goal of FSCATT Phase I is to exercise the artillery gunnery team in realistic fire missions with a reduction in expenditure of ammunition and related operational costs. FSCATT Phase I will provide battery-level training and feedback in individual skills, crew drills, and partial unit drills in executing indirect fire missions. FSCATT Phase I will consist of the following five elements: a simulator that replicates an actual M109A5/A6 self-propelled howitzer turret, strap-on sensors for selected towed and self-propelled howitzers; a fire direction center simulator; a collective training controller, and a forward observer trainer interface. Each FSCATT Phase I training sub-system will be capable of being configured to support stand-alone, interactive, and closed-loop operational training modes. In the past, field artillery gunnery team training has been conducted through the use of live fire exercises which lack realism due to safety constraints (e.g. no enemy maneuver or fire). This training is costly in terms of range suitability and availability, ammunition expenditure and travel related Petroleum, Oil, and Lubricants (POL) costs. Fiscal constraints through FY03 mandate a significant reduction of ammunition resources for training units. Reduced training resources and increasing ammunition costs prohibit firing sufficient quantities of ammunition to attain/sustain the required level of field artillery gunnery team proficiency.

**JUSTIFICATION:**

FY99 funds will provide for other realistic and effective weapons training. Effective use of FSCATT will train the gunnery team to deliver accurate and predicted fires without the Operating Tempo (OPTempo) and ammunition costs associated with live fire and also permit integration of field artillery units into a combined arms battlefield for collective task training. By FY99, 646 of the FSCATT Phase I elements will have been procured out of a total of 1,423 required. This is a Department of the Army Defense Acquisition Pilot Program (DAPP).

Exhibit P-5. Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment			P-1 Line Item Nomenclature: FIRE SUPPORT COMBINED ARMS TACTICAL TRAI (NA0174)			Weapon System Type:			Date: February 1998		
ID	CD	OPA Cost Elements	FY 96			FY 97			FY 98			FY 99		
			TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
A.	B	Howitzer Crew Trainer M109A5	11648	16	728	728	10	617	4608	8	576	4608	8	576
B.	B	Howitzer Crew Trainer M109A6	728	1	728	728	8	734	15778	23	686	15778	23	686
C.	B	Strap-on M102 Howitzer, Light Towed	695	48	14	14	24	11	480	48	10	480	48	10
D.	B	Strap-on M119 Howitzer, Light Towed	226	16	14	14	24	11	960	96	10	960	96	10
E.	B	Strap-on M198 Howitzer, Med Towed	340	20	17	17	112	11	356	92	4	356	92	4
F.	B	Strap-on M109A5 Howitzer, Med Self-Prop	1330	24	55	55	30	42	902	22	41	902	22	41
G.	B	Strap-on M109A6 Howitzer, Med Self-Prop	668	33	20	20	53	17	352	22	16	352	22	16
H.	B	Collective Training Control System	1680						2601			2601		
I.	B	Strap-on Instructor/Operator Station	400						800			800		
J.	B	Award Fee*	348						220			220		
K.		Site Installation Costs							190			190		
L.		In-House Engineering Support							267			267		
M.		Data/Documentation	336						220			220		
N.		Interim Contractor Logistic Support	187						390			390		
O.		Contractor Engineering Support	3408											
P.		ECP A5/A6 HCT Conversion												
Q.		PM Support												
<b>TOTAL</b>			21994				19396		28124					

\* Since this award fee is an integral part of the contract, the government has a contractual obligation to have the award fee funds available for payment.

Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No:					Date: February 1998				
OTHER PROCUREMENT / 3 / Other Support Equipment					P-1 Line Item Nomenclature:				
WBS Cost Elements:					FIRE SUPPORT COMBINED ARMS TACTICAL TRAI (NA0174)				
Fiscal Years					Date RFP Issue				
					Date Revisn Avail				
					Specs Avail New?				
					Unit Cost \$000				
					QTY Each				
					Date of First Delivery				
					Award Date				
					Location of PCO				
					Contract Method and Type				
					Contractor and Location				
A. Howitzer Crew Trainer M109A5									
FY 97					Hughes Trng, Arlington, TX				
FY 98					Hughes Trng, Arlington, TX				
FY 99					Hughes Trng, Arlington, TX				
B. Howitzer Crew Trainer M109A6									
FY 97					Hughes Trng, Arlington, TX				
FY 98					Hughes Trng, Arlington, TX				
FY 99					Hughes Trng, Arlington, TX				
C. Strap-on Howitzer, Light Towed									
FY 99					Hughes Trng, Arlington, TX				
D. Strap-on M119 Howitzer, Light Towed									
FY 97					Hughes Trng, Arlington, TX				
E. Strap-on M198 Howitzer, Med Towed									
FY 97					Hughes Trng, Arlington, TX				
FY 98					Hughes Trng, Arlington, TX				
F. Strap-on M109A5 Howitzer, Med Self-Prop									
FY 97					Hughes Trng, Arlington, TX				
FY 98					Hughes Trng, Arlington, TX				
FY 99					Hughes Trng, Arlington, TX				
G. Strap-on M109A6 Howitzer, Med Self-Prop									
FY 99					Hughes Trng, Arlington, TX				
REMARKS:					Naval Air Warfare Center (NAWC)				
					A.B. - Contract modified to reflect change in U.S. Army Force Structure (Move from M109A5 to M109A6), 25 Jun 97.				
					Delivery Sites - Army Wide				
					Ready for Training Date: 2QFY98				
					Type of Contract - FPAF				

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No:		Weapon System Type:		P-1 Line Item Nomenclature:						
OTHER PROCUREMENT / 3 / Other Support Equipment				FIRE SUPPORT COMBINED ARMS TACTICAL TRAI (NA0174)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
H. Collective Training Control System FY 97 FY 98 FY 99	Hughes Trng, Arlington, TX Hughes Trng, Arlington, TX Hughes Trng, Arlington, TX	OPTION OPTION OPTION	NAWC, ORLANDO, FL NAWC, ORLANDO, FL NAWC, ORLANDO, FL	Apr-97 Mar-98 Oct-98	Mar-98 Dec-98 Jun-99	24 30 22	55 42 41	YES YES YES		
I. Strap-on Instructor/Operator Station FY 97 FY 98 FY 99	Hughes Trng, Arlington, TX Hughes Trng, Arlington, TX Hughes Trng, Arlington, TX	OPTION OPTION OPTION	NAWC, ORLANDO, FL NAWC, ORLANDO, FL NAWC, ORLANDO, FL	Apr-97 Mar-98 Oct-98	Mar-98 Dec-98 Jun-99	33 53 22	20 17 16	YES YES YES		
<b>REMARKS:</b> Naval Air Warfare Center (NAWC) Sites - Army Wide Ready for Training Date: 2QFY98										







Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:				P-1 Item Nomenclature:								CALIBRATION SETS EQUIPMENT (N10000)	
OTHER PROCUREMENT / 3 / Other Support Equipment				Other Related Program Elements:									
Program Elements for Code B Items:				Code:									
				A									
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	0.0	0.0	0.0	0.0	6.4	10.0	11.6	18.9	15.9	16.7	0.0	79.5	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	0.0	0.0	0.0	6.4	10.0	11.6	18.9	15.9	16.7	0.0	79.5	
Initial Spares													
Total Proc Cost	0.0	0.0	0.0	0.0	6.4	10.0	11.6	18.9	15.9	16.7	0.0	79.5	
Flyaway U/C													
Wpn Sys Proc U/C													
<p><b>DESCRIPTION:</b> Calibration Sets Equipment comprises calibration standards (hardware), accessories, and repair equipment required to perform the Army-wide test, measurement, and diagnostic equipment (TMDE) calibration and repair mission. This equipment provides for accuracy verification of TMDE by maintaining legal traceability to standards established and maintained by the U.S. National Institute of Standards and Technology. The AN/GSM-286 and AN/GSM-287 Calibration Sets and the Reference Calibration Sets are an integral part of the Army calibration system and are used by direct support/general support maintenance units worldwide. This program supports the TMDE required to assure the operability, accuracy, and effectiveness of the Army's weapon systems.</p> <p><b>JUSTIFICATION:</b> The FY 99 funding provides for replacement of obsolete calibration standards and for procurement of state-of-the-art equipment required to ensure technologically advanced weapon systems such as the Multiple Launch Rocket System, Apache, Bradley Fighting Vehicle, and Patriot are maintained in the proper state of readiness. The FY 1999 funds will be used to procure force/torque calibration systems and synthesized sweep generators to replace obsolete equipment which is becoming unsupportable and is very expensive to maintain. The force/torque system will also add direct readout capability to decrease measurement times. The photonics standards programmed in FY 1999 are required to support new and emerging photonic test equipment including the Integrated Family of Test Equipment Electro-Optics Test Facility. The electro-optics calibration workstation will provide reference level support for the photonics standards as well as upgrading support for existing electro-optical standards and fiber-optic power meters. The FY 1999 funding will also provide for upgrade of 16 HP8902 Attenuator Calibrators to increase microwave measurement capabilities at the reference level and for procurement of additional quantities of the Wattmeter RF Amplifier, Instrument Controller, and Attenuator Calibrator to satisfy the total requirement for these items.</p> <p><b>NOTE:</b> This item was funded in OPA2 prior to FY 1998.</p>													

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment			P-1 Line Item Nomenclature: CALIBRATION SETS EQUIPMENT (N10000)			Weapon System Type:		Date: February 1998			
OPA Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Hardware:														
	A	High Accuracy Multimeter (Model 3458A)							1116	180	6			
	A	Reference Pressure Calibrator							450	30	15			
	A	Wattmeter RF Amplifier							521	15	35	1112	31	36
	A	Instrument Controller							1353	265	5	1464	287	5
	A	Attenuator Calibrator							545	54	10	798	79	10
	A	Electro-Optics Calibration Workstation										420	6	70
	A	Hydraulic Pressure Standard										635	101	6
	A	Photonics Standards, Transfer										900	6	150
	A	HP8902 Reference Upgrdae										640	16	40
	A	Calibration Measurement System										400	1	400
	A	Synthesized Sweep Generator										600	33	18
	A	Force/Torque Calibration System										456	38	12
	A	Acquisitions Less than \$200,000							943			1069		
		Government Engineering/Support							1490			1490		
TOTAL									6418			9984		

Exhibit P-5a, Budget Procurement History and Planning												
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment				Weapon System Type:		P-1 Line Item Nomenclature:						
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revis Avail	RFP Issue Date
High Accuracy Multimeter (Model 3458A) FY 98		Hewlett Packard, Palo Alto, CA		C/FP*	AMCOM	Mar-98	Jun-98	180	6	Y	N/A	N/A
Reference Pressure Calibrator FY 98		TBS (1)		C/FP	AMCOM	Apr-98	Oct-98	30	15	Y	N/A	N/A
Wattmeter RF Amplifier FY 97		Antenna Research, Beltsville, MD		C/FP	MICOM	Mar-97	Sep-97	15	34			
FY 97		Antenna Research, Beltsville, MD		C/Option	MICOM	Apr-97	Nov-97	40	34			
FY 98		Antenna Research, Beltsville, MD		C/Option	AMCOM	Mar-98	Sep-98	15	35	Y	N/A	N/A
FY 99		Antenna Research, Beltsville, MD		C/Option	AMCOM	Dec-98	May-99	31	36	Y	N/A	N/A
Instrument Controller FY 98		TBS (2)		C/FP	AMCOM	Mar-98	Jun-98	265	5	Y	N/A	Sep-97
FY 99		TBS (2)		C/Option	AMCOM	Dec-98	Feb-99	287	5	Y	N/A	N/A
Attenuator Calibrator FY 98		TBS (3)		C/FP	AMCOM	Jun-98	Dec-98	54	10	Y	N/A	Nov-97
FY 99		TBS (3)		C/Option	AMCOM	Dec-98	Apr-99	79	10	Y	N/A	N/A
Electro-Optics Calibration Workstation FY 99		TBS (4)		C/FP	AMCOM	Mar-99	Sep-99	6	70	N	Feb 98	Jun-98
Hydraulic Pressure Standard FY 99		Volumetrics, Paso Robles, CA		C/Option	AMCOM	Mar-99	Sep-99	101	6	Y	N/A	N/A
REMARKS: This item was funded in OPA2 prior to FY 1998. The Calibration Sets Equipment acquisitions are numerous; therefore, only acquisitions totaling \$200,000 or more are identified above. *Contracted from the GSA Federal Supply Schedule.												

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No:		Weapon System Type:		P-1 Line Item Nomenclature:						
OTHER PROCUREMENT / 3 / Other Support Equipment				CALIBRATION SETS EQUIPMENT (N10000)						
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Fiscal Years										
Photonics Standards, Transfer FY 99	TBS (5)	C/FP	AMCOM	Mar-99	Sep-99	6	150	N	Jun 98	Oct-98
HP8902 Reference Upgrade FY 99	Hewlett Packard, Palo Alto, CA	SS/FP	AMCOM	Mar-99	Sep-99	16	40	N	Jun 98	Oct-98
Calibration Measurement System FY 99	TBS (6)	C/FP	AMCOM	Jun-99	Dec-99	1	400	N	Oct 98	Jan-99
Synthesized Sweep Generator FY 99	TBS (7)	C/FP	AMCOM	Apr-99	Oct-99	33	18	N	Jul 98	Nov-98
Force/Torque Calibration System FY 99	TBS (8)	C/FP	AMCOM	Mar-99	Sep-99	38	12	N	Jun 98	Oct-98
<b>REMARKS:</b> This item was funded in OPA2 prior to FY 1998. The Calibration Sets Equipment acquisitions are numerous; therefore, only acquisitions totaling \$200,000 or more are identified above.										















Exhibit P-40, Budget Item Justification Sheet												Date: February 1998
Appropriation / Budget Activity/Serial No:				P-1 Item Nomenclature:								
OTHER PROCUREMENT / 3 / Other Support Equipment				INTEGRATED FAMILY OF TEST EQUIPMENT (IFTE) (MB4000)								
Program Elements for Code B Items:				Other Related Program Elements:								
Code:				A								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	0.0	0.0	34.2	54.1	48.3	70.2	50.7	57.3	0.0	314.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	34.2	54.1	48.3	70.2	50.7	57.3	0.0	314.8
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	34.2	54.1	48.3	70.2	50.7	57.3	0.0	314.8
Flyaway U/C												
Wpn Sys Proc U/C												

**DESCRIPTION:** The Integrated Family of Test Equipment (IFTE) is the Army's program to provide automatic test equipment capable of supporting multiple weapon systems. The IFTE systems provide electronic fault isolation, test, and repair capabilities at all levels of maintenance, and do it more cost effectively than system-specific testers. The IFTE family consists of three systems: The Base Shop Test Facility for direct and general support, the Contact Test Set (CTS) and follow-on CTS (Soldier Portable On-System Repair Tool) for organizational support, and the Electro-Optics Test Facility for electro-optical support. The following weapon systems depend in whole or in part upon IFTE for maintenance support: Abrams, Avenger, Kiowa Warrior, Longbow Apache, Multiple Launch Rocket System, Paladin, Sentinel, Joint Tactical Unmanned Aerial Vehicle, Army Tactical Missile System, Enhanced Position Location Reporting System, Blackhawk and Chinook helicopters, and the Army's entire fleet of diesel engine powered wheeled and tracked vehicles.

**JUSTIFICATION:** The FY 1999 funds will provide for procurement of test equipment to support the Kiowa Warrior, Longbow Apache, Paladin, MLRS, Avenger, Sentinel, and other weapons and support systems. The IFTE provides the capability to support existing weapon systems as well as the even more electronics-intensive systems planned for future fielding. The IFTE has been designated the Army's standard family of automatic test equipment (one of two Department of Defense standard families), and its use by weapon system developers is mandated by the Army Acquisition Executive. The capability of IFTE to support many different weapon systems at all maintenance levels generates substantial long-term operations and support cost savings by eliminating the need for more costly system-specific testers and by enabling retirement of the aging and increasingly unsupportable testers currently in the field.

**NOTE:** This item was funded in OPA2 prior to FY 1998.

Exhibit P-5. Weapon OPA Cost Analysis			Appropriation Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment			P-1 Line Item Nomenclature: INTEGRATED FAMILY OF TEST EQUIPMENT (IFTE) (MB4000)			Weapon System Type:			Date: February 1998		
OPA			FY 96			FY 97			FY 98			FY 99		
Cost Elements			TotalCost		UnitCost	TotalCost		UnitCost	TotalCost		UnitCost	TotalCost		UnitCost
			\$000	Each	Qty	\$000	Each	Qty	\$000	Each	Qty	\$000	Each	\$000
BASE SHOP TEST FACILITY														
Hardware	A													
Other														
<b>SUBTOTAL</b>														
CONTACT TEST SET (SPORT)*														
Hardware	A													
Other														
<b>SUBTOTAL</b>														
ELECTRO-OPTICS EQUIPMENT*														
Hardware	A													
Other														
<b>SUBTOTAL</b>														
<b>TOTAL</b>														

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 3 / Other Support Equipment												BASE SHOP TEST FACILITY (MB4001)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code: A													
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty					5	5	5	2				17	
Gross Cost	0.0	0.0	0.0	0.0	15.2	16.6	17.0	14.9	4.3	1.9	0.0	69.9	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	0.0	0.0	0.0	15.2	16.6	17.0	14.9	4.3	1.9	0.0	69.9	
Initial Spares													
Total Proc Cost	0.0	0.0	0.0	0.0	15.2	16.6	17.0	14.9	4.3	1.9	0.0	69.9	
Flyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:** The Base Shop Test Facility (BSTF) satisfies the Army's requirement for general purpose, automatic electronic testing at the direct and general support (DS/GS) levels of maintenance. It automatically identifies faults in electronic circuitry and enables immediate repair in the field through circuit card screening and replacement. The BSTF is fielded to DS/GS companies in division main support battalions, corps and non-divisional DS/GS maintenance companies, and aviation maintenance companies. The BSTF in the field is self-contained, consisting of the tester and associated test program sets mounted in two S-280 shelters, on two five-ton trucks, powered by two 60kW generators. The capabilities of this reconfigurable automatic test equipment can be expanded with minimal development to meet new test requirements. The following weapon systems are supported in whole or in part by the BSTF and its commercial equivalent which is used for factory and depot level support: Avenger, Kiowa Warrior, Multiple Launch Rocket System (MLRS), Paladin, TOW, and Dragon.

**JUSTIFICATION:** Funding in FY 1999 will procure BSTFs to support Avenger, MLRS, Paladin, Kiowa Warrior, TOW, and Dragon systems deployed in five active Army and Army National Guard units. The BSTF is an Army standard general-purpose tester and is required by Army Acquisition Executive policy to be used in support of weapon systems currently being developed. The BSTF is also facilitating the retirement of older, less reliable testers whose operating and support costs are becoming prohibitive. It will assume the workloads of and replace the Land Combat Support System, the Electronic Quality Assurance Test Equipment, and the Test Support System with substantial annual operations and support cost savings.

**NOTE:** This item was funded in OPA2 prior to FY 1998.





# Exhibit P-5a, Budget Procurement History and Planning

Exhibit P-5a, Budget Procurement History and Planning												
Appropriation / Budget Activity/Serial No:				Weapon System Type:			P-1 Line Item Nomenclature:					
OTHER PROCUREMENT / 3 / Other Support Equipment				BASE SHOP TEST FACILITY (MB4001)								
WBS Cost Elements:		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revis Avail	RFP Issue Date
Fiscal Years												
Base Shop Test Facility												
FY 96		Northrop Grumman, Bethpage,NY		SS/FP	MICOM	Apr-96	Mar-98	7	1998			
FY 96		Northrop Grumman, Bethpage,NY		SS/Option	MICOM	Jun-96	Oct-98	1	1998			
FY 97		Northrop Grumman, Bethpage,NY		SS/Option	MICOM	Nov-96	Nov-98	6	1731			
FY 97		Northrop Grumman, Bethpage,NY		SS/Option	MICOM	Feb-97	May-99	1	1731			
FY 98		Northrop Grumman, Rolling Meadows, IL		SS/Option	AMCOM	Mar-98	Jun-99	5	2126	Y	N/A	N/A
FY 99		Northrop Grumman, Rolling Meadows, IL		SS/Option	AMCOM	Dec-98	Mar-00	5	2333	Y	N/A	N/A
REMARKS: This item was funded in OPA2 prior to FY 1998. Unit prices fluctuate because of variances in the total quantities procured each year. Total quantities procured include purchases by other customers which are not reflected above. Configuration change in FY 1997 to remove radio frequency test components reduced the unit price for undelivered units from FY 1996 and FY 1997 contract awards and for future years' production.												





Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 3 / Other Support Equipment												CONTACT TEST SET (SPORT) (MB4002)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code:												A	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty					2691	2197	1767	3844	3325	4142	Cont	Cont	
Gross Cost	0.0	0.0	0.0	0.0	19.1	23.6	18.8	40.8	37.8	46.8	Cont	Cont	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	0.0	0.0	0.0	19.1	23.6	18.8	40.8	37.8	46.8	Cont	Cont	
Initial Spares													
Total Proc Cost	0.0	0.0	0.0	0.0	19.1	23.6	18.8	40.8	37.8	46.8	Cont	Cont	
Flyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:** The Contact Test Set (CTS), and its follow-on CTS (Soldier Portable On-System Repair Tool) (SPORT), are lightweight, ruggedized portable on-system testers. They are used at all levels of maintenance to automatically diagnose weapon system operations, both electronic and automotive, and identify faulty components for immediate replacement. Because they are portable automatic testers with all the inherent computer capabilities and are used by many different maintenance specialties, the CTS and CTS (SPORT) are the Army's primary platforms for paperless interactive and electronic technical manuals and for downloading mission-critical software into weapon system on-board computer processors. The CTS is in wide use throughout the Army's ground combat and combat service support vehicle fleets as well as in the Army Aviation fleet of aircraft.

**JUSTIFICATION:** The FY 1999 funds will provide for procurement of hardware to support Longbow Apache, Bradley Fight Vehicle System (M2A3), Sentinel, Paladin, Joint Tactical Unmanned Aerial Vehicle, and the Family of Medium Tactical Vehicles and other Army wheeled vehicles. The CTS and CTS (SPORT) are the Army's standard on-system testers and are essential maintenance tools in the support plans for the Army's ground vehicle and aviation fleets.

**NOTE:** This item was funded in OPA2 prior to FY 1998.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment				P-1 Line Item Nomenclature: CONTACT TEST SET (SPORT) (MB4002)				Weapon System Type:		Date: February 1998	
OPA Cost Elements			FY 96		FY 97		FY 98		FY 99					
ID	CD		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
A		Hardware* Accessories Production Engineering Software Engineering/Support Quality Assurance Government Technical Services Contractual Engineering/Technical Services  TOTAL							17248 150 600 519 48 370 120  19055	1749	10	21365 300 618 534 50 511 181  23559	2197	10

Exhibit P-5a, Budget Procurement History and Planning										Date:
Appropriation / Budget Activity/Serial No:										February 1998
OTHER PROCUREMENT / 3 / Other Support Equipment										
Weapon System Type:										
P-1 Line Item Nomenclature:										
CONTACT TEST SET (SPORT) (MB4002)										
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Reven Avail	RFP Issue Date
Fiscal Years										
Contact Test Set (SPORT)										
FY 96	Miltope Corp. Hope Hull, AL	C/FP	MICOM	Jun-96	Jan-98	80	13			
FY 97	Miltope Corp. Hope Hull, AL	C/Option	MICOM	Dec-96	Mar-98	517	7			
FY 98	Miltope Corp. Hope Hull, AL	C/Option	AMCOM	Feb-98	Jun-98	870	10	Y	N/A	N/A
FY 98	Miltope Corp. Hope Hull, AL	C/Option	AMCOM	Jul-98	Nov-98	879	10	Y	N/A	N/A
FY 99	Miltope Corp. Hope Hull, AL	C/Option	AMCOM	Feb-99	Jun-99	2197	10	Y	N/A	N/A
<b>REMARKS:</b> This item was funded in OPA2 prior to FY 1998. Unit price for FY 1996 includes "first article" costs. Unit prices vary based on the configuration procured.										







Exhibit P-40, Budget Item Justification Sheet												
Appropriation / Budget Activity/Serial No:										Date:		
OTHER PROCUREMENT / 3 / Other Support Equipment										February 1998		
P-1 Item Nomenclature:										ELECTRO-OPTIC EQUIPMENT (MB4003)		
Program Elements for Code B Items:										Other Related Program Elements:		
Code:										A		
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	0.0	0.0	0.0	13.9	12.5	14.5	8.6	8.6	Cont	Cont
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	0.0	13.9	12.5	14.5	8.6	8.6	Cont	Cont
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	0.0	13.9	12.5	14.5	8.6	8.6	Cont	Cont
Flyaway U/C												
Wpn Sys Proc U/C												
<p><b>DESCRIPTION:</b> The Integrated Family of Test Equipment (IFTE) Electro-Optics Test Facility (EOTF) will satisfy test and diagnostic requirements for forward-looking infrared systems, thermal imaging devices, laser designators/range finders, television cameras and display systems, direct view options systems, and trackers. The EOTF capitalizes on Army and Department of Defense (DoD) investments by integrating components from the IFTE Base Shop Test Facility and the Navy's standard electro-optics (EO) tester within a commercial open architecture for electronics. The IFTE EO program is in concert with Army and DoD policies on general-purpose test equipment. This equipment will support Kiowa Warrior, Longbow Apache, and Improved Target Acquisition System initially and will be capable of replacing aging EO test equipment such as the Electronic Equipment Test Facility currently supporting other Army systems in the field when it becomes cost effective to do so.</p> <p><b>JUSTIFICATION:</b> The FY 1999 funding will procure equipment to meet EO test and diagnostic requirements for the Kiowa Warrior Mast Mounted Sight and the Apache Target Acquisition Designation Sight/Pilot Night Vision Sensor. The IFTE EOTF is the Army standard off-system EO automatic tester and is capable of supporting multiple weapon systems. It will produce significant operations and support cost savings over use of system-specific testers.</p>												
<p><b>NOTE:</b> This item was funded in OPA2 prior to FY 1998.</p>												

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment		P-1 Line Item Nomenclature: ELECTRO-OPTIC EQUIPMENT (MB4003)		Weapon System Type:		Date: February 1998		
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99		
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Hardware*	A							9600	4	2400
Government Furnished Equipment								600		
Quality Verification Testing								31		
Interim Contractor Support								350		
Depot Support								350		
Production Engineering								540		
Software Engineering/Support								661		
Configuration Management								200		
Quality Assurance								200		
Technical Documentation								300		
Logistics Products/Support								429		
Government Technical Services								644		
TOTAL								13905		

# Exhibit P-5a, Budget Procurement History and Planning

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998											
Appropriation / Budget Activity/Serial No:			Weapon System Type:			P-1 Line Item Nomenclature:															
OTHER PROCUREMENT / 3 / Other Support Equipment						ELECTRO-OPTIC EQUIPMENT (MB4003)															
WBS Cost Elements:			Contract Method and Type		Location of PCO		Award Date		Date of First Delivery		QTY Each		Unit Cost \$000		Specs Avail Now?		Date Revisn Avail		RFP Issue Date		
Fiscal Years			Contractor and Location																		
Electro-Optics Test Facility			Northrop Grumman, Bethpage, NY		SS/Option		MICOM		Mar-97		Jun-98		2		1700						
FY 96			Northrop Grumman, Bethpage, NY		SS/Option		MICOM		Mar-97		Aug-98		1		1700						
FY 97			Northrop Grumman, Rolling Meadows, IL		SS/Option		AMCOM		Feb-99		May-00		4		2400		Y		N/A		
FY 99																					
<b>REMARKS:</b> This item was funded in OPA2 prior to FY 1998. Addition of digital testing capability will increase the unit price for FY 1999 and future years' procurements.																					





Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 3 / Other Support Equipment												TEST EQUIPMENT MODERNIZATION (TEMOD) (N1 1000)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code:												A	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	0.0	0.0	0.0	0.0	6.4	13.8	14.5	18.8	15.6	16.4	0.0	85.5	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	0.0	0.0	0.0	6.4	13.8	14.5	18.8	15.6	16.4	0.0	85.6	
Initial Spares													
Total Proc Cost	0.0	0.0	0.0	0.0	6.4	13.8	14.5	18.8	15.6	16.4	0.0	85.6	
Flyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:** The objectives of the Test Equipment Modernization (TEMOD) program are to improve the materiel readiness of Army weapon systems; reduce test, measurement, and diagnostic equipment (TMDE) proliferation and obsolescence; and reduce TMDE support costs. These objectives are accomplished through acquisition of state-of-the-art test equipment to provide new measurement capabilities and to replace obsolete items in the existing inventory of general purpose test equipment at the direct and general support levels. The TEMOD program supports a wide variety of communications and electronics systems, and purchases test equipment that is essential to continued support of the Abrams tank, Bradley Fighting Vehicle, Apache helicopter, Patriot, Single-Channel Ground and Airborne Radio System, and other major weapons and support systems. The TEMOD procurements are primarily commercial items which have a significant impact on the readiness, power projection, safety, and training operations of active Army, Army Reserve, and National Guard units.

**JUSTIFICATION:** The FY 1999 funding will provide for purchase of SG-1207A Signal Generators to replace equipment fielded in the early 1980s that is now obsolete and becoming unsupportable. Signal generators provide essential capabilities for repair of tactical and strategic communications systems, particularly those systems operated and maintained by the U.S. Army Intelligence and Security Command and the U.S. Army Signal Command. The FY 1999 funding will also provide for initial purchases of the Local/Wide Area Network (LAN/WAN) Analyzer and the Radar Test Set, Identification Friend or Foe (RTS,IFF). The LAN/WAN Analyzer will support the worldwide defense communications network and will replace equipment in the current Army inventory that is rapidly becoming obsolete due to changing technology. The RTS,IFF will be capable of testing MK X and MK XII compatible IFF equipment and will be used primarily in the maintenance of missile and aviation systems. It will alleviate operational and personnel safety problems associated with the aging and deficient IFF test sets currently in the field.

**NOTE:** This item was funded in OPA2 prior to FY 1998.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment			P-1 Line Item Nomenclature: TEST EQUIPMENT MODERNIZATION (ITEMOD) (N11000)			Weapon System Type:			Date: February 1998		
OPA			FY 96			FY 97			FY 98			FY 99		
Cost Elements			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Hardware: TS-4463(P) SG-1207A RTS,IFF LAN/WAN Analyzer Maintenance/Calibration Accessories Publications/Technical Data Government Engineering/Support Technical Assistance Services  <b>TOTAL</b>	CD	A A A A A A							3557	112	32	2856	653	4
									1251	286	4	6800	45	151
												2025	45	45
									75			80		
									100			600		
									1270			1302		
									165			134		
									<b>6418</b>			<b>13797</b>		

Exhibit P-5a, Budget Procurement History and Planning												
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment				Weapon System Type:		P-1 Line Item Nomenclature: TEST EQUIPMENT MODERNIZATION (TEMOD) (N11000)						
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
TS-4463(P)		Druck, Inc., New Fairfield, CT		SS/Option	MICOM	Nov-96	Jan-98	120	32	Y	N/A	N/A
FY 97		Druck, Inc., New Fairfield, CT		SS/Option	AMCOM	Jan-98	Jul-98	112	32			
SG-1207A		Wayne Kerr, Woburn, MA		C/FP	MICOM	Mar-97	Nov-98	350	6	Y	N/A	N/A
FY 97		Wayne Kerr, Woburn, MA		C/Option	AMCOM	Jan-98	Apr-99	286	4	Y	N/A	N/A
FY 98		Wayne Kerr, Woburn, MA		C/Option	AMCOM	Jan-99	Aug-99	653	4	Y	N/A	N/A
FY 99												
RTS,IFF		NavCom Def Elect, El Monte, CA		SS/FP	Naval Air Systems Cmd	Jan-99	Sep-00	45	151	Y	N/A	N/A
FY 99												
LAN/WAN Analyzer		TBS		C/FP	AMCOM	Jan-99	Sep-00	45	45	N	Dec 97	Oct-98
FY 99												
REMARKS: This item was funded in OPA2 prior to FY 1998. FY 1997 unit price for the SG-1207A includes "first article" costs.												









Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 3 / Other Support Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												RECONFIGURABLE SIMULATORS (KA6000)
654760												OMA - 121014
Code:												Other Related Program Elements:
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty												
Gross Cost	0.0	12.2	2.3	13.5	2.0	1.4	0.2	0.3	0.3	0.0	32.3	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	12.2	2.3	13.5	2.0	1.4	0.2	0.3	0.3	0.0	32.3	
Initial Spares												
Total Proc Cost	0.0	12.2	2.3	13.5	2.0	1.4	0.2	0.3	0.3	0.0	32.3	
Flyaway U/C												
Wpn Sys Proc U/C												

**DESCRIPTION:** This program provides reconfigurable simulators to support combat development simulation activities in the Army's Core Distributed Interactive Simulator Facilities (CDF) and Battle Laboratories. These simulators are combat development simulation tools which will provide the ability to conduct experiments and demonstrations cost effectively by having multiple vehicles represented in the synthetic environment by use of a single simulator. The CDFs are centrally-managed and equipped Army simulation facilities which can link and operate interactively with each other and other geographically-separated simulation sites. The CDFs are available to customers who want to conduct experiments and demonstrations using the synthetic environment. The CDF upgrades will enhance the capability of the Army to analyze user requirements and evaluate alternative technical approaches for satisfying those requirements. These upgrades will increase capabilities of simulator visual display systems, computer image generators, host computer processing power and network interface standards to provide a more realistic synthetic environment. The Synthetic Theater of War-Architecture (STOW-A) is a network of simulation training hub and remote sites which provides the capability of geographically-remote units to realistically train together, virtual testing of new equipment, analysis of alternative force structure designs, soldier training for operations in hazardous conditions without risk, and preparation of units for military operations through mission rehearsal to insure success on the battlefield.

**JUSTIFICATION:** The FY99 funding supports procurement of equipment for three STOW-A Hub Sites. This equipment is essential for the Army to achieve the objectives of Force XXI, the Army Synthetic Theater of War (STOW), and Advanced Warfighting Experiments. These procurements will provide the STOW Sites, with the necessary tools to use simulation technology to train realistically and provide the Army with the ability to determine the warfighting impact of a variety of emerging systems, technologies and capabilities for the Force Projection Army.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment		P-1 Line Item Nomenclature: RECONFIGURABLE SIMULATORS (KA6000)		Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99	
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each
A. Simulator Upgrades-Ft Knox	A	3643	4	911					
B. Simulator Upgrades-Ft Benning	A	3571	4	893					
C. Simulator Upgrades-Ft Rucker	A	2605	1	2605					
D. Simulator Upgrades-Oper Spt Fac	A	892	2	446					
E. STOW Suite Equipment	A	1320	3	440	400	1	400	1615	4
F. Ground Vehicle Variant	A				520	1	520		
G. Aviation Variant	A								
H. Ground Vehicle Desktop Variant	A								
I. EOSSA Variant	A								
J. Battle Cmd Trng Sim Equip	A				818	1	818		
K. CSSTSS Operator Environment	A	191			211	1	211	352	
Government Engineering Support					263				
Contractor Integration					84				
TOTAL		12222			2296			13501	1967

Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment				Weapon System Type:		P-1 Line Item Nomenclature:			
WBS Cost Elements: Fiscal Years				Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000
A. Simulator Upgrades-Ft Knox FY 96				DO/CPAF	NAWC, Orlando, FL	May-96	Jun-97	4	911
B. Simulator Upgrades-Ft Benning FY 96				DO/CPAF	NAWC, Orlando, FL	May-96	Sep-97	4	893
C. Simulator Upgrades-Ft Rucker FY 96				DO/CPAF	NAWC, Orlando, FL	May-96	May-97	1	2605
D. Simulator Upgrades-Oper Spt Fac FY 96				DO/CPAF	NAWC, Orlando, FL	May-96	Mar-97	2	446
E. STOW Suite Equipment FY 96 FY 97 FY 99				DO/CPAF DO/CPAF DO/CPAF	NAWC, Orlando, FL NAWC, Orlando, FL NAWC, Orlando, FL	May-96 Dec-96 Dec-98	Oct-96 Jun-97 Jun-99	3 1 4	440 400 404
F. Ground Vehicle Variant FY 97 FY 98				TBS TBS	NAWC, Orlando, FL NAWC, Orlando, FL	Mar-98 Mar-98	Jun-98 Jul-98	1 12	520 520
G. Aviation Variant FY 98				TBS	NAWC, Orlando, FL	Mar-98	Aug-98	1	2500
H. Ground Vehicle Desktop Variant FY 98				TBS	NAWC, Orlando, FL	Mar-98	May-98	15	200
REMARKS: Naval Air Warfare Center (NAWC), Mission Contracting Activity (MCA). STOW Suite Equipment and Core DIS Facility Upgrades are procured on Delivery Orders from the competitively-selected contractor who operates the Army Core DIS Facilities.									

Date: February 1998

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No:		P-1 Line Item Nomenclature:								
OTHER PROCUREMENT / 3 / Other Support Equipment		RECONFIGURABLE SIMULATORS (KA6000)								
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY	Unit Cost \$000	Specs Avail Now?	Date Revis Avail	RFP Issue Date
Fiscal Years						Each				
I. EEOSSA Variant	TBS	CFP	NAWC, Orlando, FL	May-98	Jul-98	1	1000	Yes		
J. Battle Cmd Trng Sim Equip FY 97	Signal Communications Sys & Supply, Greensboro, NC	CFP	MCA Ft Leavenworth, KS	Apr-97	Aug-97	1	818	Yes		
K. CSSTSS Operator Environment FY 97	Multiple	CFP	TCA-East, Ft Lee, VA	May-97	Jul-97	1	211	Yes		
<b>REMARKS:</b> Naval Air Warfare Center (NAWC), Mission Contracting Activity (MCA). STOW Suite Equipment and Core DIS Facility Upgrades are procured on Delivery Orders from the competitively-selected contractor who operates the Army Core DIS Facilities. EEOSSA - Early Entry Operations Sustainment Support Analysis										







Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No.												February 1998
OTHER PROCUREMENT / 3 / Other Support Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												PHYSICAL SECURITY SYSTEMS (OPA3) (MA0780)
Code:												Other Related Program Elements:
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty												
Gross Cost		6.4	7.2	6.3	16.2	15.6	15.6	15.8	16.1		99.3	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)		6.4	7.2	6.3	16.2	15.6	15.6	15.8	16.1		99.3	
Initial Spares												
Total Proc Cost		6.4	7.2	6.3	16.2	15.6	15.6	15.8	16.1		99.3	
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: Physical Security Systems protect high dollar, critical assets that are vulnerable to determined, skilled intruders or saboteurs intending to deprive the United States of these resources prior to armed conflict or to embarrass the Government during peace time. Physical Security Systems include the integrated Commercial Intrusion Detection System (ICIDS), the Joint-Services Interior Intrusion Detection System (J-SIDS) and the Commercial Intrusion Detection Systems (CIDS). Goal is to provide security to units, families and facilities; and to reduce the number of deployable soldiers used for security missions during mobilization and deployment.

JUSTIFICATION: FY 99 funds procure electronic Physical Security Equipment (PSE), that supports regulatory required security measures for conventional arms, ammunition, and explosive storage facilities; sensitive compartmented information facilities; and areas designated mission essential and vulnerable. Minimizes risks and vulnerabilities by providing commanders with the required levels of protection by using available electronic technology instead of employing soldiers or civilian guards to safeguard personnel and Army assets. Funding protects personnel, facilities and equipment from terrorists and criminal threats. The procurement portion of the Force Protection Program supports unit readiness and deployments by reducing unit and installation vulnerability during levels of high threat (THREATCON). The Program is designed to counter time-sensitive terrorist threats and to increase the protection of soldiers, family members, DA civilians, key facilities, and training and intelligence assets.

Transferred from OPA-2 to OPA-3 starting in FY96.

Exhibit P-5. Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment			P-1 Line Item Nomenclature: PHYSICAL SECURITY SYSTEMS (OPA3) (MA0780)			Weapon System Type:			Date: February 1998		
OPA Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
CD			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
J-SIDS	A		350		VAR	350		VAR	350		VAR	350		VAR
CIDS	A		1375			1396			1398			10813		
SUBTOTAL			1725			1746			1748			11163		
ICIDS	A		4400	2	2200	5372	2	2686	4474	3	1491	4901	2	2451
AMG	A		270			100			100			100		
SUBTOTAL			4670			5472			4574			5001		
Unit cost reflect only an average cost. The unit cost is site dependent. Components are assembled according to individual site security requirements.														
TOTAL			6395			7218			6322			16164		

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 3 / Other Support Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												JSIDS/CIDS (OPA3) (MA0781)
Code:												Other Related Program Elements:
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty												
Gross Cost		1.7	1.7	1.7	11.2	10.1	10.1	10.2	10.4		57.2	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)		1.7	1.7	1.7	11.2	10.1	10.1	10.2	10.4		57.2	
Initial Spares												
Total Proc Cost		1.7	1.7	1.7	11.2	10.1	10.1	10.2	10.4		57.2	
Fltway U/C												
Wpn Sys Proc U/C												

**DESCRIPTION:** The J-SIDS is an Army type classified standard interior intrusion detection system used to secure arms rooms, nuclear/chemical and conventional ammunition magazines, drug storage, automatic data processing centers, communications and financial facilities. Funding provides for initial issue based on a DA prioritized distribution plan. Goal is to provide security to units, families, and facilities; and to reduce the number of deployable soldiers used for security missions during mobilization and deployment.

When centrally managed ICIDS or J-SIDS cannot be used, MACOMs use locally purchased CIDS to secure vital resources. CIDS funds purchase of commercial intrusion detection systems hardware to meet nonstandard requirements. Funds are sent to individual posts, camps, and stations worldwide for competitive contracts, project orders, and work requests. Goal is to provide security to units, families, and facilities; and to reduce the number of deployable soldiers used for physical security missions during mobilization and deployment.

**JUSTIFICATION:** The FY 99 program funds procurement of electronic Physical Security Equipment (PSE). These funds address the specific modernization of integrated PSE for intrusion detection and assessment, access control, and electronic surveillance at Army Materiel Command chemical and ammunition storage depots. Counter terrorism funding will meet US Army Europe and Forces Command requirements for Force Protection in support of troop deployment. Provides regulatory required security measures for: nuclear reactors, conventional arms, ammunition, and explosive storage facilities; Sensitive Compartmented Information Facilities; and areas designated mission essential and vulnerable. Minimizes risks and vulnerabilities by providing commanders with the required levels of protection by using available electronic technology instead of employing soldiers or civilians guards to safeguard personnel and Army assets. Funding protects personnel facilities and equipment from terrorist or criminal threats. The procurement portion of the Force Protection Program supports unit readiness and deployments by reducing unit and installation vulnerability during levels of high threat (THREATCON).

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment		P-1 Line Item Nomenclature: JSIDS/CIDS (OPA3) (MA0781)		Weapon System Type:		Date: February 1998		
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99		
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
J-SIIDS Hardware Engineering Support  SUBTOTAL	A	250 100 350	250	1	250 100 350	250	1	250 100 350	250	1
CIDS  SUBTOTAL		1375 1375			1396 1396			10813 10813		
Unit costs reflect only an average cost. The unit cost is site dependent. Components are assembled according to individual site security requirements.		1725			1746			11163		
TOTAL										

Exhibit P-40, Budget Item Justification Sheet											Date:	
Appropriation / Budget Activity/Serial No:											February 1998	
OTHER PROCUREMENT / 3 / Other Support Equipment											P-1 Item Nomenclature:	
Program Elements for Code B Items:											ICIDS (OPA3) (MA0782)	
Code:											Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost			4.7	5.5	4.6	5.0	5.5	5.5	5.6	5.7		42.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)			4.7	5.5	4.6	5.0	5.5	5.5	5.6	5.7		42.0
Initial Spares												
Total Proc Cost			4.7	5.5	4.6	5.0	5.5	5.5	5.6	5.7		42.0
Flyaway U/C												
Wpn Sys Proc U/C												
<p><b>DESCRIPTION:</b> The Integrated Commercial Intrusion Detection System (ICIDS) program consists of commercially available interior and exterior sensor, response, entry control, electronic surveillance, and command and control devices protecting chemical/nuclear and special compartmented information facilities, sensitive munitions; conventional arms, ammunition and explosive areas; non-nuclear missiles and rockets in a ready to fire configuration, and critical mission essential assets. The Alarm Monitor Group (AMG), a personal computer based upgrade to the J-SIDS, provides a cost effective system meeting basic security communications, control and display capabilities for small site applications where ICIDS would be inappropriate. These components are assembled as "systems" to meet the site specific requirements of installations on the DA Distribution Plan. Goal is to provide security to units, families and facilities; and to reduce the number of deployable soldiers used for security missions during mobilization and deployment.</p> <p><b>JUSTIFICATION:</b> The FY 99 program funds procurement of electronic Physical Security Equipment at Pueblo Depot Activity and Fort Lewis, as currently scheduled in the DA ICIDS Distribution Plan. These funds will modernize the intrusion detection and assessment, access control, and surveillance systems by augmenting current equipment or replacing obsolete equipment with state-of-the-art electronic equipment. Funding provides regulatory security measures for conventional arms, ammunition, and explosive storage facilities; Sensitive Compartment Information Facilities; and areas designated mission essential and vulnerable. Equipment minimizes risks and vulnerabilities by providing commanders with the required levels of protection by using available electronic technology instead of employing soldiers or civilian guards to safeguard personnel and Army assets. The AMG provides a low cost alternative to the ICIDS allowing upgrades to existing J-SIDS and offering a computerized operating system significantly increasing mission efficiency.</p>												

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment			P-1 Line Item Nomenclature: ICIDS (OPA3) (MA0782)			Weapon System Type:			Date: February 1998		
OPA Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
ICIDS														
Hardware	A		3718	2	1859	4394	2	2197	3579	3	1193	3921	2	1961
Engineering			682			978			895			980		
<b>SUBTOTAL</b>			<b>4400</b>			<b>5372</b>			<b>4474</b>			<b>4901</b>		
AMG	A													
Engineering			270			100			100			100		
<b>SUBTOTAL</b>			<b>270</b>			<b>100</b>			<b>100</b>			<b>100</b>		
Unit cost reflect only an average cost. The unit cost is site dependent. Components are assembled according to individual site security requirements.														
<b>TOTAL</b>			<b>4670</b>			<b>5472</b>			<b>4574</b>			<b>5001</b>		

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No:		Weapon System Type:		P-1 Line Item Nomenclature:						
OTHER PROCUREMENT / 3 / Other Support Equipment				ICIDS (OPAs) (MA0782)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Hardware (ICIDS) FY 98 FY 99	Lockheed Martin Lockheed Martin	C/F/OPTION C/F/OPTION	CECOM CECOM	May-98 May-99	Jun-98 Jun-99	3 2	1193 1961	Yes Yes	No No	
<b>REMARKS:</b> Unit cost reflects an average cost. The unit cost is site dependent. Components are assembled according to individual site security requirements.										





Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 3 / Other Support Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												SYSTEM FIELDING SUPPORT (OPA-3) (MA0070)
Code:												Other Related Program Elements:
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	67.7	13.5	9.6	7.9	4.8	7.1	7.5	7.0	5.9	7.1	0.0	138.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	67.7	13.5	9.6	7.9	4.8	7.1	7.5	7.0	5.9	7.1	0.0	138.1
Initial Spares												
Total Proc Cost	67.7	13.5	9.6	7.9	4.8	7.1	7.5	7.0	5.9	7.1	0.0	138.1
Flyaway U/C												
Wpnt Sys Proc U/C												

DESCRIPTION: System fielding support funds provide for First Destination Transportation (FDT), Total Package Fielding (TPF), and New Equipment Training (NET) for all systems and equipment funded within Other Procurement Army, Activity 3, Other Support Equipment. FDT funds provide the movement of Army equipment, modification kits, assemblies, and components from the manufacturing point to a CONUS depot or other points of first acceptance within the CONUS supply system. (NOTE: Excludes transportation costs paid by a vendor as prescribed in a procurement contract.) TPF is the standard method of fielding new equipment developed under the Army's force modernization program. The materiel developer plans, develops, acquires, and deploys the materiel systems, including Associated Support Items of Equipment (ASIOE) and Support List Allowance (SLAC) items through a physical handoff to the user. The TPF costs include SLAC items, deprocessing, Temporary Duty (TDY), salaries, and Army Working Capital Fund (AWCF) managed equipment.

JUSTIFICATION: FY99 funds will ensure (1) continued uninterrupted shipment of newly procured items to Army users in support of readiness and training, (2) continued and orderly fielding of force modernization systems, and (3) transfer of knowledge from the materiel developer to the trainer, user, and other support personnel.

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 3 / Other Support Equipment												BASE LEVEL COM'L EQUIPMENT (MB7000)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	406.1	10.7	3.1	6.0	4.2	9.7	6.6	6.5	6.4	6.8	0.0	466.1	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	406.1	10.7	3.1	6.0	4.2	9.7	6.6	6.5	6.4	6.8	0.0	466.1	
Initial Spares													
Total Proc Cost	406.1	10.7	3.1	6.0	4.2	9.7	6.6	6.5	6.4	6.8	0.0	466.1	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION: The Base Level Commercial Equipment (BCE) program funds equipment to support installation operating missions with contracts for the required equipment being awarded by the installation. BCE items are generally commercial, off-the-shelf, non-centrally managed, authorized by Table of Distribution and Allowance (TDA) activities of the Active Army and Reserve Components and those Joint Table of Allowances (JTA) activities for which the Army is the executive agent, can be used in a stand-alone mode and not lose its identity on application and have a unit cost of \$100,000 or more. Examples of these items are: commercial laundry and dry cleaning equipment, grounds maintenance equipment and dishwashers.

JUSTIFICATION: FY 99 program funds non-standard items with a cost of \$100,000 or more which are not available through the Army Supply System. Specifically, the replacement of eight super stackers are included in these funds. Twelve Major Commands/General Operating Agencies are provided funds from this budget line.

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 3 / Other Support Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												ELECTRONIC REPAIR SHELTER (MB2201)
Code:												Other Related Program Elements:
A												
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty				3	2	2	2	1			10	
Gross Cost	0.0	0.0	0.0	5.5	3.7	3.7	2.9	1.6	0.0		17.4	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	5.5	3.7	3.7	2.9	1.6	0.0		17.4	
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	5.5	3.7	3.7	2.9	1.6	0.0		17.4	
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Electronic Repair Shelter (ERS) provides a capability for field level repair of circuit card assemblies in line replaceable units (LRU) and shop replaceable units (SRU) after fault isolation on an Integrated Family of Test Equipment Base Shop Test Facility or other test equipment. This system also provides a capability for testing and fault isolation of printed circuit boards. The ERS consists of a circuit card tester and two electronic repair workstations, all packaged in an environmentally-controlled shelter. It will be fielded to general support maintenance units at corps level and above.

JUSTIFICATION: The FY 1999 funds will be used to procure ERSs to complete fill of the initial requirements for Army general support units in the continental United States, Europe, and Korea. The ERS provides for field level testing and repair of LRUs, SRUs, and circuit card assemblies. It corrects a finding reported by the Army Audit Agency that Army field units have not been equipped with a cost-effective means for repair of circuit cards, and it satisfies a Chief of Staff of the Army initiative to lower operating costs through circuit card screening and repair in the field. The ERS will reduce operating and support costs for Army units by avoiding the need for evacuation of faulty components to depots or contractors' plants for repair.



Exhibit P-5a, Budget Procurement History and Planning										Date:
Appropriation / Budget Activity/Serial No.		Weapon System Type		P-1 Line Item Nomenclature:						
OTHER PROCUREMENT / 3 / Other Support Equipment				ELECTRONIC REPAIR SHELTER (MB2201)						
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Fiscal Years										
Electronic Repair Shelter	AMCOM, Redstone Arsenal, AL	SS/FP	AMCOM	Dec-97	May-98	3	472	Y	N/A	N/A
FY 98	AMCOM, Redstone Arsenal, AL	SS/FP	AMCOM	Dec-98	Sep-99	2	472	Y	N/A	N/A
FY 99										
<b>REMARKS:</b> The Electronic Repair Shelter will be an integration of components from various vendors. The integration will be managed by the U.S. Army Aviation and Missile Command Weapon Systems Directorate.										







Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 3 / Other Support Equipment												MODIFICATION OF IN-SVC EQUIPMENT (OPA-3) (MA4500)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code:													
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	73.7	36.0	9.8	14.8	16.3	17.7	22.9	26.1	15.8	9.0	0.0	242.1	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	73.7	36.0	9.8	14.8	16.3	17.7	22.9	26.1	15.8	9.0	0.0	242.1	
Initial Spares													
Total Proc Cost	73.7	36.0	9.8	14.8	16.3	17.7	22.9	26.1	15.8	9.0	0.0	242.1	
Flyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:** This budget line funds OPA-3 modifications of in-service equipment programs. It is used to procure hardware, materials, and installation to complete the modification. Items supported by this line include Logistics-Over-The-Shore (LOTS) watercraft, Combat Service and Engineering Support Equipment, and modifications to the M-9 Armored Combat Earthmover (ACE). Modifications are performed to correct safety deficiencies, increase mission capabilities, extend the useful life, improve supportability, upgrade existing technology, increase efficiency, improve readiness and to meet new legal and regulatory requirements. By modifying existing equipment, the Army maintains a ready, supportable inventory of equipment that meets current requirements and regulations at a cost considerably below that of buying new equipment.

**JUSTIFICATION:** The FY 1999 Modification of In-Service Equipment budget request supports modernization of 8 Ton Mechanized Landing Craft; Lighter, Amphibious Resupply cargo, the 100 Ft Tug, Remote Ordnance Neutralization System, Smoke Mechanized Motorized System and the M-9 ACE System Improvement Plan. These Upgrades will extend the service life of the Army's watercraft and preclude replacing them with new vessels at considerably greater cost. The system improvements to the M-9 ACE will improve operability and increase readiness.

Exhibit P-40M Budget Item Justification Sheet											
Appropriation / Budget Activity/Serial No.				Date		February 1998					
OTHER PROCUREMENT / 3 / Other Support Equipment				P-1 Item Nomenclature		MODIFICATION OF IN-SVC EQUIPMENT (OPA-3) (MA4500)					
Program Elements for Code B Items				Code		Other Related Program Elements					
Description				Fiscal Years							
OSIP NO.	Classification	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TC	Total
Landing Craft, Mechanized 8 Ton											
1-TACOM	EQUIP UPGRADE	0.3	1.2	1.2	1.0	0.5	2.4	0.4	0.4	0.8	8.2
Lighter Amphibious Resupply Cargo 60											
2-TACOM	SLEP	1.4	3.5	5.0	3.4	1.0	0.0	0.0	0.0	0.0	14.3
Upgrade 100' Tug											
3-TACOM	EQUIP UPGRADE	0.0	3.3	6.0	0.0	0.0	0.0	0.0	0.0	0.0	9.3
Marine CEN Upgrade											
4-TACOM	EQUIP UPGRADE	0.0	1.1	0.3	0.1	5.2	6.8	6.7	6.7	1.8	28.7
M-9 ACE Micro-Climatic Cooling System											
8-TACOM	MODERNIZATION	10.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0
M-9 ACE, System Improvement Plan											
9-TACOM	READINESS	7.5	1.7	3.8	3.8	4.2	4.2	4.5	0.1	0.0	29.8
Remote Ordnance Neutralization System											
20-TACOM	EQUIPMENT UPGRADE	0.0	0.0	0.0	1.9	3.9	0.0	0.0	0.0	0.0	5.8
Combat Svc Spt Equipment (No P3a Set) (No P3a Set)											
7-SSCOM	EQUIP UPGRADE	0.0	1.8	0.0	0.0	0.0	0.0	0.0	1.1	0.0	2.9
Driver's Vision Enhancer for M56											
5-CBDCOM	EQUIP UPGRADE	0.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	2.9
Vehicle Engine Exhaust Smoke System (No P3a Set)											
10-CBDCOM	MODERNIZATION	0.0	0.0	0.0	0.0	0.0	2.5	3.4	0.0	0.0	5.9
LASER LEVELING DEVICE (No P3a Set)											
1-98-06-45-40	EQUIP UPGRADE	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
Landing Craft Utility											
1-96-08-3109	EQUIP UPGRADE	0.0	0.0	0.0	1.7	2.3	4.2	0.8	0.7	15.8	25.5

Exhibit P-40M Budget Item Justification Sheet												Date	February 1998
Appropriation / Budget Activity/Serial No.		OTHER PROCUREMENT / 3 / Other Support Equipment		P-1 Item Nomenclature		MODIFICATION OF IN-SVC EQUIPMENT (OPA-3) (MA4500)							
Program Elements for Code B Items		Code		Other Related Program Elements									
Description		Fiscal Years										Total	
OSIP NO.	Classification	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TC	Total		
Logistics Support Vessel													
1-90-08-3130	EQUIP UPGRADE	0.0	0.0	0.0	2.9	5.8	6.0	0.0	0.0	0.0	14.7		
Totals		20.0	14.8	16.3	17.7	22.9	26.1	15.8	9.0	18.4	161.0		

INDIVIDUAL MODIFICATION																			
													Date	February 1998					
<b>MODIFICATION TITLE:</b> Landing Craft, Mechanized 8 Ton (LCM-8) TACOM																			
<b>MODELS OF SYSTEMS AFFECTED:</b> LCM-8																			
<b>DESCRIPTION / JUSTIFICATION:</b> <p>The "Mod 1" upgrade will correct safety and operational shortcomings identified by the user community and combat developer. The upgrade will include installation of an escape hatch in the head of the craft, an improved navigational compass, and an enhanced bilge ballast system. The "Mod 2" upgrade will correct the operational shortcomings identified during Joint Logistics Over-The-Shore (JLOTS) operations. The upgrade includes command and control capability, increased cab space, covered shelter for 50 personnel, improved fire fighting safety capability, and ability to transport stevedores to and from ships.</p>																			
<b>DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:</b>																			
										<b>PLANNED</b> FY96-99 FY96-00 FY99-05 FY99-05					<b>ACCOMPLISHED</b> FY96 FY97				
<b>Installation Schedule:</b>																			
		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001									
Pr Yr		1 2 3 4		1 2 3 4		1 2 3 4		1 2 3 4		1 2 3 4									
Totals		1 2 3 4		1 2 3 4		1 2 3 4		1 2 3 4		1 2 3 4									
Inputs		7		6		6		6		6									
Outputs		7		6		6		6		6									
		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006									
Totals		1 2 3 4		1 2 3 4		1 2 3 4		1 2 3 4		1 2 3 4									
Inputs		1 1 1 1		1 1 1 1		1 1 1 1		1 1 1 1		1 1 1 1									
Outputs		1 1 1 1		1 1 1 1		1 1 1 1		1 1 1 1		1 1 1 1									
Totals		68		68		68		68		68									
<b>METHOD OF IMPLEMENTATION:</b> Contract																			
<b>Contract Dates:</b> FY 1997 DEC 96																			
<b>Delivery Date:</b> FY 1997 AUG 97																			
<b>ADMINISTRATIVE LEADTIME:</b> 2 Months																			
<b>PRODUCTION LEADTIME:</b> 8 Months																			
<b>Contract Dates:</b> FY 1997 DEC 96																			
<b>Delivery Date:</b> FY 1997 AUG 97																			
<b>ADMINISTRATIVE LEADTIME:</b> 2 Months																			
<b>PRODUCTION LEADTIME:</b> 8 Months																			



INDIVIDUAL MODIFICATION											
										Date	February 1998
MODIFICATION TITLE: <b>Lighter Amphibious Resupply Cargo 60 2-TACOM</b>											
MODELS OF SYSTEMS AFFECTED: <b>Lighter Amphibious Resupply Cargo -60 (LARC-60)</b>											
DESCRIPTION / JUSTIFICATION:											
<p>This Service Life Extension Program (SLEP) involves the modification of 11 craft to extend their useful life by 20 years. Maintenance and operational capability improvements for Logistics-Over-the-Shore (LOTS) operations will be accomplished. Current speed and mobility will be increased. Capability to operate on unimproved beaches will be enhanced.</p>											
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:											
						<u>PLANNED</u>					
						<u>ACCOMPLISHED</u>					
Kit Procurement		3Q/96 - 2Q/99		3Q/96							
Kit Installation		1Q/97 - 1Q/00		3Q/97							
Installation Schedule:											
Pr Yr		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001	
Totals		1	2	3	4	1	2	3	4	1	2
Inputs		1			1	1	1	1	1	1	
Outputs			1		1	1	1	1	1	1	
Totals		1	2	3	4	1	2	3	4	1	2
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Totals		1	2	3	4	1	2	3	4	1	2
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Inputs											
Outputs											
Totals		1	2	3	4	1	2	3	4	1	2
Inputs											
Outputs											



INDIVIDUAL MODIFICATION														
MODIFICATION TITLE: Upgrade 100' Tug 3-TACOM												Date		
MODELS OF SYSTEMS AFFECTED: 100' Tug														
DESCRIPTION / JUSTIFICATION:														
<p>This upgrade will significantly improve the mission capability of the vessel. It will improve the main engine power plant, upgrade on-board environmental capabilities, improve crew quarters and open mess areas. The operations center will be improved to enhance maneuverability. This modification includes update of communications, electronics and navigational equipment.</p>														
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:														
<u>PLANNED</u> 1Q/97 -4Q/99  1Q/99 -2Q/02										<u>ACCOMPLISHED</u> 2Q/97				
Kit Procurement  Kit Application														
Installation Schedule:														
FY 1997		FY 1998		FY 1999		FY 2000		FY 2001						
1	2	3	4	1	2	3	4	1	2	3	4			
Totals														
Inputs														
Outputs														
FY 2002		FY 2003		FY 2004		FY 2005		To						
1	2	3	4	1	2	3	4	1	2	3	4			
Totals														
Inputs														
Outputs														
METHOD OF IMPLEMENTATION: Contract Contract Dates: FY 1997 JAN 97 Delivery Date: FY 1997 SEP 98														
ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 12 Months FY 1998 APR 98 FY 1999 SEP 98														



INDIVIDUAL MODIFICATION													
Date February 1998													
MODIFICATION TITLE (Cont): Upgrade 100' Tug 3-TACOM													
FINANCIAL PLAN: (\$ in Millions)													
	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		TOTAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty
RDT&E													
PROCUREMENT													
Kit Quantity	2		3.3		1.4								2
Installation Kits													4.7
Installation Kits, Nonrecurring Equipment													
Equipment, Nonrecurring													
Engineering Change Orders													
Data													
Training Equipment													
Support Equipment													
Other													
Interim Contractor Support													
Installation of Hardware													
FY 1996 & Prior Eqpt -- Kits													
FY 1997 Eqpt -- Kits													
FY 1998 Eqpt -- Kits													
FY 1999 Eqpt -- Kits													
FY 2000 Eqpt -- kits													
FY 2001 Eqpt -- kits													
FY 2002 Eqpt -- kits													
FY 2003 Eqpt -- kits													
TC Equip-Kits													
Total Installment					2	4.6							2
Total Procurement Cost			3.3		6.0								9.3

INDIVIDUAL MODIFICATION																																																																																										
										Date	February 1998																																																																															
<b>MODIFICATION TITLE:</b> Marine CEN Upgrade 4-TACOM																																																																																										
<b>MODELS OF SYSTEMS AFFECTED:</b> Landing Craft Utility (LCU) 2000, Logistics Support Vessel (LSV), 128' Tug, High Speed Patrol Boat																																																																																										
<b>DESCRIPTION / JUSTIFICATION:</b> <p>Thes upgrades will allow these vessels to continue to meet federal maritime and safety standards. They will upgrade communications, electronics and navigational (CEN) equipment maintaining capability with other services. The project has two phases. The primary phase covers all vessels and is due for completion in FY00. The second phase will automate several key functions, upgrade capabilities, and most importantly bring craft into compliance with recent Maritime/Coast Guard CEN standards for sea-going vessels. This upgrade will address sea-going vessel improvements only.</p>																																																																																										
<b>DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:</b>																																																																																										
<u>PLANNED</u> 2Q/97						<u>ACCOMPLISHED</u> 3Q/97																																																																																				
1st Kit Procurement						1Q/98																																																																																				
1st Kit Application						1Q/98																																																																																				
<b>Installation Schedule:</b>																																																																																										
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Pr Yr</th> <th colspan="3">FY 1997</th> <th colspan="3">FY 1998</th> <th colspan="3">FY 1999</th> <th colspan="3">FY 2000</th> <th colspan="3">FY 2001</th> </tr> <tr> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>1</th> <th>2</th> <th>3</th> </tr> </thead> <tbody> <tr> <td><b>Totals</b></td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>1</td> <td>2</td> <td>3</td> </tr> <tr> <td><b>Inputs</b></td> <td></td> <td></td> <td></td> <td></td> <td>5</td> <td>5</td> <td>5</td> <td>5</td> <td>5</td> <td>5</td> <td>5</td> <td>5</td> <td>5</td> <td>5</td> <td>5</td> </tr> <tr> <td><b>Outputs</b></td> <td></td> <td></td> <td></td> <td></td> <td>5</td> <td>5</td> <td>5</td> <td>5</td> <td>5</td> <td>5</td> <td>5</td> <td>5</td> <td>5</td> <td>5</td> <td>5</td> </tr> </tbody> </table>												Pr Yr	FY 1997			FY 1998			FY 1999			FY 2000			FY 2001			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	<b>Totals</b>	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	<b>Inputs</b>					5	5	5	5	5	5	5	5	5	5	5	<b>Outputs</b>					5	5	5	5	5	5	5	5	5	5	5
Pr Yr	FY 1997			FY 1998			FY 1999			FY 2000			FY 2001																																																																													
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3																																																																											
<b>Totals</b>	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3																																																																											
<b>Inputs</b>					5	5	5	5	5	5	5	5	5	5	5																																																																											
<b>Outputs</b>					5	5	5	5	5	5	5	5	5	5	5																																																																											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Pr Yr</th> <th colspan="3">FY 2002</th> <th colspan="3">FY 2003</th> <th colspan="3">FY 2004</th> <th colspan="3">FY 2005</th> <th rowspan="2">To Complete</th> <th rowspan="2">Totals</th> </tr> <tr> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> </tr> </thead> <tbody> <tr> <td><b>Inputs</b></td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td></td> <td>74</td> </tr> <tr> <td><b>Outputs</b></td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td></td> <td>74</td> </tr> </tbody> </table>												Pr Yr	FY 2002			FY 2003			FY 2004			FY 2005			To Complete	Totals	1	2	3	4	1	2	3	4	1	2	3	4	<b>Inputs</b>	1	2	3	4	1	2	3	4	1	2	3	4		74	<b>Outputs</b>	1	2	3	4	1	2	3	4	1	2	3	4		74																						
Pr Yr	FY 2002			FY 2003			FY 2004			FY 2005			To Complete	Totals																																																																												
	1	2	3	4	1	2	3	4	1	2	3	4																																																																														
<b>Inputs</b>	1	2	3	4	1	2	3	4	1	2	3	4		74																																																																												
<b>Outputs</b>	1	2	3	4	1	2	3	4	1	2	3	4		74																																																																												
<b>METHOD OF IMPLEMENTATION:</b> Contract																																																																																										
<b>Contract Dates:</b> FY 1997 MAY 97																																																																																										
<b>Delivery Date:</b> FY 1997 JAN 98																																																																																										
<b>ADMINISTRATIVE LEADTIME:</b> 3 Months																																																																																										
<b>PRODUCTION LEADTIME:</b> 8 Months																																																																																										
<b>FY 1998:</b> FEB 98																																																																																										
<b>FY 1999:</b> FEB 99																																																																																										
<b>FY 1999:</b> OCT 99																																																																																										

INDIVIDUAL MODIFICATION														Date		February 1998			
Marine CEN Upgrade 4-TACOM																			
MODIFICATION TITLE (Cont):																			
FINANCIAL PLAN: (\$ in Millions)																			
FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
		51	0.2	3	0.1			5	4.9	5	4.9	5	4.8	5	4.9			74	19.8
RDT&E																			
PROCUREMENT																			
Kit Quantity																			
Installation Kits																			
Installation Kits, Nonrecurring																			
Equipment																			
Equipment, Nonrecurring																			
Engineering Change Orders																			
Data									0.1										0.1
Training Equipment									0.2										0.2
Support Equipment																			
Other																			
Interim Contractor Support																			
Installation of Hardware																			
FY 1996 & Prior Eqpt -- Kits																			
FY 1997 Eqpt -- Kits		41	0.9	10	0.2			3	0.1									51	1.1
FY 1998 Eqpt -- Kits																		3	0.1
FY 1999 Eqpt -- Kits																			
FY 2000 Eqpt -- kits										5	1.9							5	1.9
FY 2001 Eqpt -- kits																		5	1.9
FY 2002 Eqpt -- kits																		5	1.8
FY 2003 Eqpt -- kits																		5	1.8
TC Equip-Kits																5	1.8		
Total Installment		41	0.9	10	0.2			3	0.1			5	1.9	5	1.9	5	1.8	74	8.6
Total Procurement Cost			1.1		0.3				0.1				6.7		6.7		1.8		28.7

INDIVIDUAL MODIFICATION																				
										Date										
February 1998																				
MODIFICATION TITLE: M-9 ACE Micro-Climatic Cooling System 8-TACOM																				
MODELS OF SYSTEMS AFFECTED: M9 Armored Combat Earthmover (M9 ACE)																				
DESCRIPTION / JUSTIFICATION:																				
<p>This modification will provide the means for lowering the M9 operator's body temperature during hot weather extremes or when the threat includes a Nuclear, Biological or Chemical (NBC) environment. Survivability will be enhanced by improved operator performance and the avoidance of illness caused by overexposure to excessively high temperature.</p>																				
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:																				
Installation Schedule:																				
Pr Yr	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	296	108	44																	
Outputs	188	108	108	44																
Inputs	FY 2002				FY 2003				FY 2004				FY 2005				Totals			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	To Complete			
Inputs																		448		
Outputs																		448		
METHOD OF IMPLEMENTATION:		Contractor		ADMINISTRATIVE LEADTIME:		6 Months		PRODUCTION LEADTIME:		6 Months										
Contract Dates:		FY 1997    MAR 96		FY 1998		FY 1999		FY 1999		FY 1999										
Delivery Date:		FY 1997    SEP 96		FY 1998		FY 1999		FY 1999		FY 1999										

INDIVIDUAL MODIFICATION																				
M-9 ACE Micro-Climatic Cooling System 8-TACOM																				
MODIFICATION TITLE (Cont):																				
FINANCIAL PLAN: (\$ in Millions)																				
	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT																				
Kit Quantity																				
Installation Kits	458	1.7																	458	1.7
Installation Kits, Nonrecurring Equipment	118	7.4																	118	7.4
Equipment, Nonrecurring Engineering Change Orders																				
Data		0.5																		0.5
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 1996 & Prior Eqpt -- Kits																				
FY 1997 Eqpt -- Kits	404	1.2	44	0.2															448	1.4
FY 1998 Eqpt -- Kits																				
FY 1999 Eqpt -- Kits																				
FY 2000 Eqpt -- kits																				
FY 2001 Eqpt -- kits																				
FY 2002 Eqpt -- kits																				
FY 2003 Eqpt -- kits																				
TC Equip-Kits																				
Total Installation	404	1.2	44	0.2															448	1.4
Total Procurement Cost		10.8		0.2																11.0









INDIVIDUAL MODIFICATION													
Remote Ordnance Neutralization System 20-TACOM												Date	February 1998
MODIFICATION TITLE (Cont):													
FINANCIAL PLAN: (\$ in Millions)													
	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		TOTAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty
RDT&E													
PROCUREMENT													
Kit Quantity													
Installation Kits													
Installation Kits, Nonrecurring Equipment							20	1.9	37	3.9			57
Equipment, Nonrecurring Engineering Change Orders													5.8
Data													
Training Equipment													
Support Equipment													
Other													
Interim Contractor Support													
Installation of Hardware													
FY 1996 & Prior Eqpt -- Kits													
FY 1997 Eqpt -- Kits													
FY 1998 Eqpt -- Kits													
FY 1999 Eqpt -- Kits													
FY 2000 Eqpt -- kits													
FY 2001 Eqpt -- kits													
FY 2002 Eqpt -- kits													
FY 2003 Eqpt -- kits													
TC Equip-Kits													
Total Installment													
Total Procurement Cost							1.9		3.9				5.8

INDIVIDUAL MODIFICATION											
										Date	February 1998
<b>MODIFICATION TITLE:</b> Driver's Vision Enhancer for M56 5-CBDCOM											
<b>MODELS OF SYSTEMS AFFECTED:</b> M56 Gen Smoke Mechanized, Motorized Dual Purpose (M99103)											
<b>DESCRIPTION / JUSTIFICATION:</b> <p>The modification kits will upgrade currently fielded, conditionally released, M56 smoke generator to include a driver's vision enhancer (DVE). The addition of the DVE will produce a full release. The smoke generator consists of a gas turbine power module, visual smoke module, IR smoke module and electrical control module mounted on an M113 HMMWV. The visual screening module is capable of vaporizing fog oil for up to 90 minutes and the infrared module is capable of disseminating particulate material to provide 30 minutes of screening.</p>											
<b>DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:</b>											
				PLANNED		ACCOMPLISHED					
Contract Award						Feb 99					
FUE/IOC						Mar 00					
<b>Installation Schedule:</b>											
Pr Yr		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001	
Totals		1	2	3	4	1	2	3	4	1	2
Inputs											
Outputs											
Totals		1	2	3	4	1	2	3	4	1	2
Inputs											
Outputs											
Totals		1	2	3	4	1	2	3	4	1	2
Inputs											
Outputs											
Totals		1	2	3	4	1	2	3	4	1	2
Inputs											
Outputs											
Totals		1	2	3	4	1	2	3	4	1	2
Inputs											
Outputs											
Totals		1	2	3	4	1	2	3	4	1	2
Inputs											
Outputs											
Totals		1	2	3	4	1	2	3	4	1	2
Inputs											
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Totals		1	2	3	4	1	2	3	4	1	2
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Outputs											
Totals		1	2	3	4	1	2	3	4	1	2
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Totals		1	2	3	4	1	2	3	4	1	2
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Totals		1	2	3	4	1	2	3	4	1	2
Inputs											
Outputs											
Totals		1	2	3	4	1	2	3	4	1	2
Inputs											
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Totals		1	2	3	4	1	2	3	4	1	2
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Totals		1	2	3	4	1	2	3	4	1	2
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Totals		1	2	3	4	1	2	3	4	1	2
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Totals		1	2	3	4	1	2	3	4	1	2
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Totals		1	2	3	4	1	2	3	4	1	2
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Totals		1	2	3	4	1	2	3	4	1	2
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Totals		1	2	3	4	1	2	3	4	1	2
Inputs											
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Totals		1	2	3	4	1	2	3	4	1	2
Inputs											
Outputs											
Totals		1	2	3	4	1	2	3	4	1	2
Inputs											
Outputs											
Totals		1	2	3	4	1	2	3	4	1	2
Inputs											
Outputs											
Totals		1	2	3	4	1	2	3	4	1	2
Inputs											
Outputs											
Totals		1	2	3	4	1	2	3	4	1	2
Inputs											
Outputs											
Totals		1	2	3	4	1	2	3	4	1	2
Inputs											
Outputs											
Totals		1	2	3	4	1	2	3	4	1	2
Inputs											
Outputs											
Totals		1	2	3	4	1	2	3	4	1	2
Inputs											
Outputs											
Totals		1	2	3	4	1	2	3	4	1	2
Inputs											
Outputs											
Totals		1	2	3	4	1	2	3	4	1	2
Inputs											
Outputs											
Totals		1	2	3	4	1	2	3	4	1	2
Inputs											
Outputs											
Totals		1	2	3	4	1	2	3	4	1	2
Inputs											
Outputs											
Totals		1	2	3	4	1	2	3	4	1	2
Inputs											
Outputs											
Totals		1	2	3	4	1	2	3	4	1	2
Inputs											
Outputs											
Totals		1	2	3	4	1	2	3	4	1	2
Inputs											
Outputs											
Totals		1	2	3	4	1	2	3	4	1	2
Inputs											
Outputs											
Totals		1	2	3	4	1	2	3	4	1	2
Inputs											
Outputs											
Totals		1	2	3	4	1	2	3	4	1	2
Inputs											
Outputs											
Totals		1	2	3	4	1	2	3	4	1	2
Inputs											
Outputs											
Totals		1	2	3	4	1	2	3	4	1	2



INDIVIDUAL MODIFICATION														
Date										February 1998				
<b>MODIFICATION TITLE:</b> Landing Craft Utility 1-96-08-3109														
<b>MODELS OF SYSTEMS AFFECTED:</b> Landing Craft Utility (LCU 2000)														
<b>DESCRIPTION / JUSTIFICATION:</b> <p>This upgrade will correct safety and operational shortcomings identified by the user community and combat developer. It will also include changes that eliminate environmental hazards to the vessel or crew and also changes that correct technical or operational deficiencies. Some examples are: replacement of existing watertight doors with Navy Standard doors, installation of an efficient, low maintenance drinking water purifier, installation of a reliable oil water separator that meets current pollution standards, new lube oil filtration system, replacement of old four blade propellers with five blade propellers.</p>														
<b>DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:</b>														
<b>PLANNED</b> Kit Procurement FY99-05 Kit Application FY00-05					<b>ACCOMPLISHED</b>									
<b>Installation Schedule:</b>														
<b>Inputs</b> <b>Outputs</b>		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001				
		1	2	3	4	1	2	3	4	1	2	3	4	
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1
Totals		1	2	3	4	1								

INDIVIDUAL MODIFICATION														Date		February 1998			
MODIFICATION TITLE (Cont):																			
Landing Craft Utility 1-96-08-3109																			
FINANCIAL PLAN: (\$ in Millions)																			
FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$

INDIVIDUAL MODIFICATION																			
MODIFICATION TITLE: Logistics Support Vessel 1-90-08-3130														Date					
MODELS OF SYSTEMS AFFECTED: Logistics Support Vessel (LSV)																			
DESCRIPTION / JUSTIFICATION:																			
<p>This upgrade will correct safety and operational shortcomings identified by the user community and combat developer. It will also include changes that eliminate environmental hazards to the vessel or crew and also changes that correct technical or operational deficiencies. Some examples are; replacement of existing watertight doors with Navy Standard doors, installation of an efficient, low maintenance drinking water purifier, installation of a reliable oil water separator that meets current pollution standards, new lube oil filtration system, replacement of old four blade propellers with five blade propellers.</p>																			
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:																			
PLANNED										ACCOMPLISHED									
<div style="display: flex; justify-content: space-between;"> <div> Kit Procurement  Kit Application </div> <div> FY99-01  FY99-02 </div> </div>																			
Installation Schedule:																			
Inputs Outputs		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001									
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Totals																			
Inputs Outputs		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006									
1	2	3	4	1	2	3	4	1	2	3	4	Complete		Totals					
Totals																			
METHOD OF IMPLEMENTATION: MIPR to Navy Contract Dates: FY 1997 Delivery Date: FY 1997																			
ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 8 Months FY 1998 May 99 FY 1999 Aug 99																			

INDIVIDUAL MODIFICATION																	Date			
Logistics Support Vessel 1-90-08-3130																				
FINANCIAL PLAN: (\$ in Millions)																				
	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT																				
Kit Quantity																				
Installation Kits					1	0.5			2	1.0	2	1.0							5	2.5
Installation Kits, Nonrecurring Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders												0.3								0.3
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 1996 & Prior Eqpt -- Kits																				
FY 1997 Eqpt -- Kits																				
FY 1998 Eqpt -- Kits																				
FY 1999 Eqpt -- Kits					1	2.4			2	4.8									1	2.4
FY 2000 Eqpt -- kits																			2	4.8
FY 2001 Eqpt -- kits											2	4.7							2	4.7
FY 2002 Eqpt -- kits																				
FY 2003 Eqpt -- kits																				
TC Equip-Kits																				
Total Installment					1	2.4			2	4.8	2	4.7							5	11.9
Total Procurement Cost						2.9			5.8	6.0										14.7

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 3 / Other Support Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												PRODUCTION BASE SUPPORT (OTH) (MA0450)
Code:												Other Related Program Elements:
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	283.8	4.0	2.2	1.9	2.2	2.3	2.5	2.4	2.6	2.6	0.0	306.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	283.8	4.0	2.2	1.9	2.2	2.3	2.5	2.4	2.6	2.6	0.0	306.5
Initial Spares												
Total Proc Cost	283.8	4.0	2.2	1.9	2.2	2.3	2.5	2.4	2.6	2.6	0.0	306.5
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This program sustains and improves our current capabilities through the purchase of equipment, instrumentation, and facilities. Enhancement of the current capabilities improves productivity of data acquisition and analysis. The rehabilitation of a variety of industrial plant equipment is required to ensure the continuing capability to perform assigned tasks of production acceptance testing and product improvement testing of Army materiel.

JUSTIFICATION: Funding in FY99 will be used for replacement of equipment and instrumentation used in production testing at Yuma, Aberdeen Proving Grounds, Dugway Proving Ground and the Cold Region Test Center, Ft. Greely, Alaska.



Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment		P-1 Line Item Nomenclature: PRODUCTION BASE SUPPORT (OTH) (MA0450)		Weapon System Type:		Date: February 1998			
OPA Cost Elements		ID	FY 96		FY 97		FY 98		FY 99		
		CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
09X5063 PSR, Aberdeen Prov'g Ground Production Support and Equipment Replacement (PSR) of existing test equipment support, record and analyze performance data during production testing.			\$0.788			\$0.770			\$0.950		
09X5066 PSR, Dugway Proving Ground Replacement of obsolete instrumentation/ equipment which supports production acceptance testing on various Army sys.									\$0.148		\$0.200
09X5068 PSR, Yuma Proving Ground Replacement of Automotive Instrumentation Equipment, Dynamic Test Support Equipment, etc., to support data gathering for test support.			\$0.747			\$0.895			\$0.891		\$0.904
09X5070 PSR, Cold Region Test Center Replacement of existing test equipment, instrumentation, provide telemetry data transmission, and telephoto lens for IR Imaging Camera to analyze performance data during cold weather testing of other support equipment.			\$0.242			\$0.240			\$0.200		
HAZARDOUS Minimization Project Office Secretary of Army			\$0.400								
TOTAL			\$2.177			\$1.905			\$2.189		\$2.274

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 3 / Other Support Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												SPECIAL EQUIPMENT FOR USER TESTING (MA6700)
Code:												Other Related Program Elements:
A												
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty												
Gross Cost	238.3	10.4	8.9	13.5	14.6	15.1	27.0	18.8	19.2	0.0		
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	238.3	10.4	8.9	13.5	14.6	15.1	27.0	18.8	19.2	0.0		
Initial Spares												
Total Proc Cost	238.3	10.4	8.9	13.5	14.6	15.1	27.0	18.8	19.2	0.0		
Flyaway U/C												
Wpn Sys Proc U/C												

**DESCRIPTION:**  
This program provides funding for Major User Test Instrumentation, Army Threat Simulators, and Operational Test and Evaluation (OT&E) sustaining instrumentation. Major User Test Instrumentation and Army Threat Simulators provide support for Operational Testing (OT) and Force Development Testing and Experimentation (FDTE). Threat Simulator and OT&E procurements are normally for small quantities, frequently one item. Major User Test Instrumentation acquisitions are typically production items of instrumentation equipment developed under RDT&E funded contracts. Typical Army Threat Simulator acquisitions are commercial end items. These are used as components in Threat Simulators. When available, Foreign Threat Systems and end items are acquired. OT&E Sustaining Instrumentation procures low dollar augmentations and replacements for obsolete or technically deficient equipment.

**JUSTIFICATION:**  
FY99 funding supports acquisition of the following procurement items under the OPTEC Test Instrumentation Program (OTIP). Procures: Threat Jammer Replicator Amplifier (AMP) will be used to test US systems' vulnerability to Electronic Countermeasures (ECM). Mobile Command Post will provide the capability of providing command, coordination and range control for two or more test running concurrently. XM06A Critical Spares Kit will provide subassemblies required to support the XM06A Threat System. Quick-Look Instrumentation Reduction Workstation will acquire the on-line quick look capability for assessment of data being collected from selected player units through the Video Telemetry and Recording System. Communications assets will provide foreign tactical radios and commercial communications systems used as target communications links for operational testing. Jammer Modulation Upgrade will upgrade the modulation subsystem utilized in the automated intelligence/electronic warfare test system.

<b>Exhibit P-40C Budget Item Justification Sheet</b>			Date	February 1998
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature		
OTHER PROCUREMENT / 3 / Other Support Equipment		SPECIAL EQUIPMENT FOR USER TESTING (MA6700)		
Program Elements for Code B Items	Code	Other Related Program Elements		
<p>The effort in FY99 procures initial spares for actual foreign materiel. The XM17S represents an Advanced Air Defense System for testing of U.S. weapons systems. It is highly mobile and very effective against low altitude targets. This project supports all U.S. electronic countermeasures development and operational tests including tactics evaluation. This is the only proposed simulation of a multiple Target Tracking-System with enhanced low-altitude performance. The Mobile Automated Instrumentation Suite (MAIS) FY99 procurement buys 60 ground vehicle player units, 12 rotary wing player units, 20 crew served weapons, interim contract logistics support, engineering and testing support. The MAIS will provide the capability to meet the test and evaluation needs for future hardware, tactics, and organizations in an operational environment. The player units will be mounted on ground vehicles, fixed wing aircraft, helicopters, crew served weapons and individual soldiers to test emerging technologies and upgrades to weapon systems in a combat realistic field environment.</p>				

Exhibit P-40, Budget Item Justification Sheet											Date: February 1998	
Appropriation / Budget Activity/Serial No:											P-1 Item Nomenclature:	
OTHER PROCUREMENT / 3 / Other Support Equipment											SPECIAL EQUIPMENT FOR USER TESTING (MA6700)	
Program Elements for Code B Items:											Other Related Program Elements:	
Code:												
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty												
Gross Cost	0.0	3.7	3.2	1.6	1.8	1.8	2.8	6.9	7.0	0.0	30.5	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	3.7	3.2	1.6	1.8	1.8	2.8	6.9	7.0	0.0	30.5	
Initial Spares												
Total Proc Cost	0.0	3.7	3.2	1.6	1.8	1.8	2.8	6.9	7.0	0.0	30.5	
Flyaway U/C												
Wpn Sys Proc U/C												

**DESCRIPTION:**  
To remain abreast of new weapons and communications systems, this project provides a cost effective data collection, telemetry, and processing capability to conduct credible operational tests as required by the Department of Defense (DOD) and Congress. It modernizes Operational Test and Evaluation Command's (OPTEC's) instrumentation capability and develops non-major instrumentation that is non-intrusive, more reliable, and provides near real-time access of data for test control and analysis by integrating combat simulators into operational test and by inserting technology advances into OPTEC Instrumentation. It supports Real-Time Casualty Assessment (RTCA) providing simulated attrition of forces.

**JUSTIFICATION:**  
FY99 funding supports acquisition of the following procurement items under the OPTEC Test Instrumentation Program (OTIP). Procures: Threat Jammer Replicator AMP will be used to test US systems' vulnerability to Electronic Countermeasures (ECM). Mobile Command Post will provide the capability of providing command, coordination and range control for two or more test running concurrently. XM06A Critical Spares Kit will provide subassemblies required to support the XM06A Threat System. Quick-Look Instrumentation Reduction Workstation will acquire the on-line quick look capability for assessment of data being collected from selected player units through the Video Telemetry and Recording System. Communications Assets will provide foreign tactical radios and commercial communications systems used as target communications links for operational testing. Jammer Modulation Upgrade will upgrade the modulation subsystem utilized in the automated intelligence/electronic warfare test system.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment				P-1 Line Item Nomenclature: SPECIAL EQUIPMENT FOR USER TESTING (MA6700)				Weapon System Type:		Date: February 1998	
OPA Cost Elements			FY 96		FY 97		FY 98		FY 99					
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
	A	Precision Range Integrated Maneuver Exercise (PRIME)	2,956	3	985									
	A	EWMF Microwave Wide Bandwidth	248	1	248									
	A	Radar Threat Signal Emulator				193	1	193						
	A	Mobile Command Post				332	2	166						
	A	XMHKS Critical Spares Kit				205	1	205						
	A	Microwave LOB System Replacement				408	1	408						
		RIM Upgrade				152	1	152						
	A	Fast Scan HF Receiver VMT-C				344	1	344	538	1	538			
	A	HKS Amp and Spares							205	1	205			
	A	OGA Chassis							214	1	214			
	A	Quick-Look Instru Reduction Workstation							200	1	200			
	A	TEXCOM ADATD Player & Event System Enhancement							215	1	215			
	A	Millimeter Wave Receiver System							400	1	630			
	A	Threat JAMMER Replicator (K Band)										400	1	400
	A	Mobile Command Post										332	1	332
	A	XMO6A Critical Spares Kit										236	1	236
	A	Quick Look Instrumentation Station										180	1	180
	A	Communications Assets										250	1	250
	A	Jammer Modulation Upgrade										260	1	260
TOTAL			3,204			1,634			1,772			1,658		



Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										SPECIAL EQUIPMENT FOR USER TESTING (MA6700)	
OTHER PROCUREMENT / 3 / Other Support Equipment		Other Related Program Elements:											
Program Elements for Code B Items:		Code:											
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	0.0	6.8	5.7	10.0	0.6	0.5	3.4	4.1	12.7	13.0	0.0	56.8	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	6.8	5.7	10.0	0.6	0.5	3.4	4.1	12.7	13.0	0.0	56.8	
Initial Spares													
Total Proc Cost	0.0	6.8	5.7	10.0	0.6	0.5	3.4	4.1	12.7	13.0	0.0	57.9	
Flyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:**  
The Acquisition Strategy used by the Army Threat Simulator program is to procure actual foreign hardware. The second option is to use Nondevelopmental Items (NDI) to the maximum extent possible (for example, Chassis, Subsystems, Commercial Equipment, or Actual Threat Weapons) which integrates into a Threat Simulator design. The high probability of acquiring NDI equipment has lead to programming of procurement funds to resource this portion of the project equipment, which supports U.S. Army Major System Operational Testing such as the Joint-Tactical Information Distribution System (J-TIDS), Multiple Launch Rocket System (MLRS), Sense and Destroy Armor V (SADARM V), AVENGER, APACHE LONGBOW, OH-58 Armed, Comanche (RAH66) and Aircraft Survivability Equipment (ASE) warning receiver systems.

**JUSTIFICATION:**  
The effort in FY99 procures initial spares for actual foreign materiel. The XM17S represents an Advanced Air Defense System for testing of U.S. weapons systems. It is highly mobile and very effective against low altitude targets. This project supports all U.S. electronic countermeasures development and operational tests including tactics evaluation. This is the only proposed simulation of a multiple Target Tracking-System with enhanced low-altitude performance.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment				P-1 Line Item Nomenclature: SPECIAL EQUIPMENT FOR USER TESTING (MA6700)				Weapon System Type:		Date: February 1998	
OPA Cost Elements			FY 96		FY 97		FY 98		FY 99					
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
		ARMY THREAT SIMULATORS												
		A. XMTAR Software Upgrade	739	1	739									
		B. XMC3S Off the Shelf Proccession	1174	1	1174	89	1	89						
		C. XM17S Antenna	1858	1	1858									
		D. XM18S NDI Scoring Packages	1910	5	382									
		E. XM330ES Communication Jammer				6000	3	2000						
		F. XM15S Initial Spares				1319	1	1319						
		G. XM17S Initial Spares							602	1	602		1	504
		I. XM330ES Initial Spares				2550	3	850						
		TOTAL	5681			9958			602			504		



Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No:		P-1 Line Item Nomenclature:								
OTHER PROCUREMENT / 3 / Other Support Equipment		SPECIAL EQUIPMENT FOR USER TESTING (MA6700)								
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Fiscal Years										
E. XM330ES Communication Jammer FY 97	GTE, Tempe, AZ	FFP/SS	MICOM, RSA, AL	Jan-97	Jan-98	3	2000	Yes		
REMARKS:										



Exhibit P-40, Budget Item Justification Sheet											Date:	February 1998
Appropriation / Budget Activity/Serial No:				P-1 Item Nomenclature:				SPECIAL EQUIPMENT FOR USER TESTING (MA6700)				
OTHER PROCUREMENT / 3 / Other Support Equipment				Other Related Program Elements:								
Program Elements for Code B Items:				Code:								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	0.0	1.9	12.2	12.9	13.0	20.2	0.0	0.0	0.0	60.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	1.9	12.2	12.9	13.0	20.2	0.0	0.0	0.0	60.2
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	1.9	12.2	12.9	13.0	20.2	0.0	0.0	0.0	57.9
Flyaway U/C												
Wpn Sys Proc U/C												

**DESCRIPTION:**  
The Mobile Automated Instrumentation Suite (MAIS) provides users a high fidelity, realistic, real-time capability to measure the performance of systems and personnel under tactical conditions for large scale operations. The MAIS will instrument combat systems in the operational forces to provide encrypted Real Time Casualty Assessment (RTCA) and Time, Space, and Positioning Information (TSPI) data. The MAIS system and its data are the tools that will enable objective assessments for new materiel acquisition, force structuring, doctrine and tactics modification and through the High Level Architecture (HLA) Protocol Data Unit (PDU) format, provide data to validate the future DoD warfighting models and simulations, all in support of multi-service test and training exercises.

**JUSTIFICATION:**  
The MAIS FY99 procurement buys 60 ground vehicle player units, 12 rotary wing player units, 20 crew served weapons, interim contract logistics support, engineering and testing support. The MAIS will provide the capability to meet the test and evaluation needs for future hardware, tactics, and organizations in an operational environment. The player units will be mounted on ground vehicles, fixed wing aircraft, helicopters, crew served weapons and individual soldiers to test emerging technologies and upgrades to weapon systems in a combat realistic field environment.

Exhibit P-5. OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support Equipment				P-1 Line Item Nomenclature: SPECIAL EQUIPMENT FOR USER TESTING (MA6700)				Weapon System Type: Various		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
MAJOR USER TEST INSTRUMENTATION B													
A. MAIS Ground Vehicle Player Unit													
B. Rotary Wing Player Unit													
C. Crew Served Weapons													
D. MAIS AGES II Kits													
E. Audio Visual Cue Devices													
F. Instrumentation Systems													
G. Engineering Support													
H. Test Support (1A)													
I. Interim Cont Logistics Support													
Total													

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998					
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 3 / Other Support				Weapon System Type:			P-1 Line Item Nomenclature: SPECIAL EQUIPMENT FOR USEH IESING (MA6700)			Date: February 1998					
Equipment				Contract Method and Type			Location of PCO			Award Date					
WBS Cost Elements: Fiscal Years				Contractor and Location			Date of First Delivery			QTY Each	Unit Cost \$000	Specs Now?	Date Revs Avail	RFP Issue	
A. MAIS Ground Vehicle Player Unit				Lockheed/Martin, Akron, Ohio			Option*			Feb-98	64	141	YES	NO	
FY 98				Lockheed/Martin, Akron, Ohio			Option*			Oct-98	60	166	YES	NO	
FY 99															
B. Rotary Wing Player Unit				Lockheed/Martin, Akron, Ohio			Option*			Feb-98	8	198	YES	NO	
FY 98				Lockheed/Martin, Akron, Ohio			Option*			Oct-98	12	196	YES	NO	
FY 99															
C. Crew Served Weapons				Lockheed/Martin, Akron, Ohio			Option*			Oct-98	20	9	YES	NO	
FY 99															
D. MAIS AGES II Kits				Lockheed/Martin, Akron, Ohio			Option			Aug-97	4	257	YES	NO	
FY 97															
E. Audio Visual Cue Devices				Cubic, San Diego, CA			Option			Mar-98	141	8	YES	NO	
FY 98															
F. Instrumentation Systems				Tesco, Ft Hood, TX			Option			Mar-97	1	850	YES	NO	
FY 97															
REMARKS: Sole source production contract with options to be awarded Feb 98. Quantities are reduced due to increase in contractor cost. NAWC=Naval Air Warfare Center OPTEC=Operational Test & Evaluation Command															





Exhibit P-40, Budget Item Justification Sheet												
Appropriation / Budget Activity/Serial No:										Date:		
OTHER PROCUREMENT / 3 / Other Support Equipment										February 1998		
P-1 Item Nomenclature:										MA8975 (MA8975)		
Program Elements for Code B Items:										Other Related Program Elements:		
Code:										Code:		
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	2.2	2.2	4.1	6.0	4.5	2.4	6.5	4.8	0.0	32.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	2.2	2.2	4.1	6.0	4.5	2.4	6.5	4.8	0.0	32.7
Initial Spares												
Total Proc Cost	0.0	0.0	2.2	2.2	4.1	6.0	4.5	2.4	6.5	4.8	0.0	32.7
Flyaway U/C												
Wpn Sys Proc U/C												

**JUSTIFICATION:** FY99 funds will provide for the replacement of critical components that are approaching end of shelf-life and new equipment required to maintain mission capability for a classified program. Current industry practice of minimizing inventory and manufacturing only to order has caused revisions in operational plans that formerly depended on rapid procurements. Reduced demand for heavy industrial process components and the subsequent shrinkage of the U.S. manufacturing base in casting, forging, and fabrication have caused lead times to exceed the acceptable mobilization period. Procurement of these components will ensure successful mission responses to emergency situations.



Exhibit P-40, Budget Item Justification Sheet													Date:	February 1998
Appropriation / Budget Activity/Serial No:													P-1 Item Nomenclature:	
OTHER PROCUREMENT / 4 / Initial Spares													INITIAL SPARES - TSV (DS1000)	
Program Elements for Code B Items:													Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog		
Proc Qty														
Gross Cost	0.0	0.0	0.1	0.1	0.1	4.4	0.1	0.0	3.6	3.6	0.0	12.0		
Less PY Adv Proc														
Plus CY Adv Proc														
Net Proc (P-1)	0.0	0.0	0.1	0.1	0.1	4.4	0.1	0.0	3.6	3.6	0.0	12.0		
Initial Spares														
Total Proc Cost	0.0	0.0	0.1	0.1	0.1	4.4	0.1	0.0	3.6	3.6	0.0	12.0		
Flyaway U/C														
Wpn Sys Proc U/C														
Description: Provides for procurement of spares to support initial fielding of new or modified end items.														
Justification: The funds in this account procure depot level repairable (DLRs) secondary items from the Supply Management, Army activity of the Army Working Capital Fund. To provide initial support, funds are normally required in the same year that end items are fielded. Initial spares breakout:														
System		FY 1996	FY 1997	FY 1998	FY 1999									
FMTV		0.1			4.3									
PEO Other			0.1	0.1	0.1									
Total		0.1	0.1	0.1	4.4									

Exhibit P-40, Budget Item Justification Sheet												Date: February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:
OTHER PROCUREMENT / 4 / Initial Spares												INITIAL SPARES - C&E (BS9100)
Program Elements for Code B Items:												Other Related Program Elements:
Code:												
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	64.3	57.2	53.3	73.4	46.7	63.7	53.4	48.2	0.0	460.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	64.3	57.2	53.3	73.4	46.7	63.7	53.4	48.2	0.0	460.2
Initial Spares												
Total Proc Cost	0.0	0.0	64.3	57.2	53.3	73.4	46.7	63.7	53.4	48.2	0.0	460.2
Flyaway U/C												
Wpn Sys Proc U/C												
Description: Provides for procurement of spares to support initial fielding of new or modified end items.												
Justification: The funds in this account procure depot level repairable (DLRs) secondary items from the Supply Management, Army activity of the Army Working Capital Fund. To provide initial support, funds are normally required in the same year that end items are fielded. Initial spares breakout:												
System	FY 1996	FY 1997	FY 1998	FY 1999								
FAAD C2	1.6	1.2	1.6	0.8								
CSSCS	0.5	0.8	0.3	0.2								
AFATDS	0.2	2.1	2.0	3.3								
ASAS (TIARA)	2.0	0.6										
PEO CCSS	0.1	0.2	1.0	0.9								
SCAMP		1.2	2.6	3.8								
(Cont)												

Exhibit P-40C Budget Item Justification Sheet				
Appropriation / Budget Activity/Serial No.		Date	February 1998	
OTHER PROCUREMENT / 4 / Initial Spares		P-1 Item Nomenclature	INITIAL SPARES - C&E (BS9100)	
Program Elements for Code B Items		Code	Other Related Program Elements	
System	FY 1996	FY 1997	FY 1998	FY 1999
SINGGARS	1.6	1.3	1.5	1.4
Defense Satellite Comm	6.0	3.9	8.4	16.0
NON-PEO	6.3	6.4	3.8	3.3
SENTINEL	2.3	3.6	5.3	7.2
TACSAT	5.7	3.4	1.0	7.2
SMART-T		1.6	1.0	1.4
Army Data Distribution Sys	4.4	2.4	3.4	0.7
Joint Stars (Army) (TIARA)	3.5	8.6	6.3	8.7
PEO IEW	26.7	15.8	11.8	15.2
PEO STAMIS - OTHER	3.3	3.2	3.3	3.3
MCS Spares	0.2	0.9		
Total	64.3	57.2	53.3	73.4

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 4 / Initial Spares												INITIAL SPARES - OTHER SUPPORT EQUIP (MS3500)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	0.0	0.0	0.2	0.6	0.9	1.2	0.7	0.7	0.7	0.7	0.0	5.7	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	0.0	0.2	0.6	0.9	1.2	0.7	0.7	0.7	0.7	0.0	5.7	
Initial Spares													
Total Proc Cost	0.0	0.0	0.2	0.6	0.9	1.2	0.7	0.7	0.7	0.7	0.0	5.7	
Flyaway U/C													
Wpn Sys Proc U/C													
Description: Provides for procurement of spares to support initial fielding of new or modified end items.													
Justification: The funds in this account procure depot level repairable (DLRs) secondary items from the Supply Management, Army activity of the Army Working Capital Fund. To provide initial support, funds are normally required in the same year that end items are fielded. Initial spares breakout:													
System		FY 1996	FY 1997	FY 1998	FY 1999								
LOGISTICS OVER THE SHORE						0.4							
ITEMS < \$2.0M (CONST EQUIP)			0.2	0.2	0.2	0.2							
ITEMS < \$2.0M (MHE)			0.1	0.1	0.1	0.6							
SMOKE OBSCURE TARGET		0.2	0.3	0.6	0.6	0.6							
Total		0.2	0.6	0.9	1.2	1.2							